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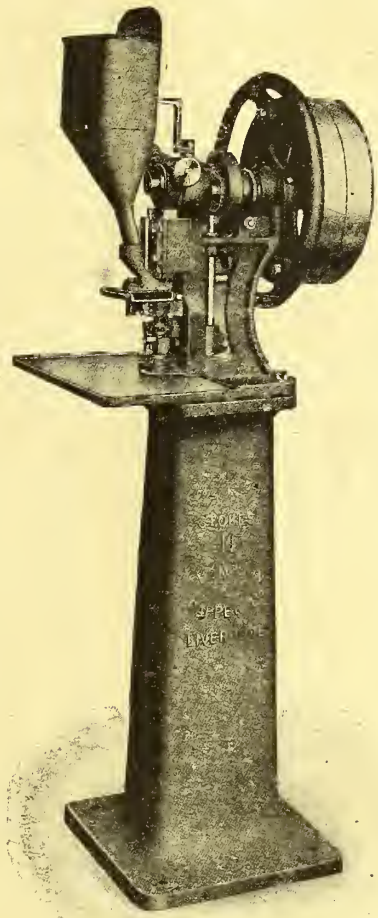

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Reprint from "*British Industry and Salicylates,*" L.C.W., Ltd., June, 1918, page 3.

In our opinion the British position seems to require, for a period of at least ten years :—

(1) A regulation prohibiting the sale in or to this country at a price below which it is sold in the country of origin, of any Product not produced in sufficient quantities at Home and therefore required from abroad.

(2) A regulation prohibiting altogether the import of Products which are manufactured in sufficient quantities at Home, and sold at approved reasonable prices.

Reprint from the *Journal of the Society of Chemical Industry*, November 15, 1916.

LONDON CHAMBER OF COMMERCE.

Special Meeting of Chemical Section, held at the Chamber House, 79 Cannon Street, E.C., October 27, 1916.

Mr. R. Pugh, of the London Chemical Works, Ltd., said that . . . they were looking for some form of protection which would enable them to establish themselves on equal terms with their foreign competitors. They considered that they should be protected against unfair competition by proper organisation.

Extract from *Board of Trade Journal*, August 28, 1919, page 262.

IMPORT RESTRICTIONS.

With reference to the Prime Minister's statement in Parliament on Monday, 18th August, on the subject of Trade Policy, the Board of Trade make the following announcement as to the steps which are proposed in connection with imports of goods from abroad.

Legislation will be introduced when Parliament reassembles in the autumn :—

(a) For the protection of goods manufactured in Great Britain and Ireland against "dumping" by taking power to prevent the sale in this country of similar goods beneath their price in the country of origin.

(c) to deal with unstable "key" industries in the following way :—

A limited number of unstable "key" industries will be scheduled, the products of which will be prohibited from importation into this country except on license.

Pending legislation, a general license under the Prohibition of Import Proclamations will be issued by the Board of Trade having effect as from September 1, 1919, and authorising the importation into the United Kingdom of all goods with the exception of those in the following list, which will be treated as unstable "key" industries :—

1. All derivatives of coal tar generally known as intermediate products capable of being used or adapted for use as dyestuffs or of being modified or further manufactured into dyestuffs.

2. Synthetic drugs (including antiseptics).

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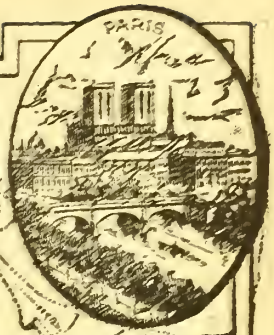

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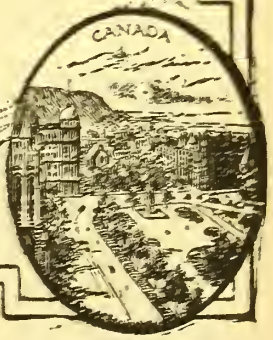

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Moore's Modern Methods reduce the work to a minimum.

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are scarce and will be scarcer and dearer soon. Lay in a Stock of Bottled Goods at **PRESENT PRICES.**

VANISHING CREAM, 2-oz. S.C. Jars	78/-	per gross	
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GRIPE WATER FOR INFANTS

IN sequence to our Notice of August 9, with reference to BOTTLE SUPPLIES, cut off owing to the strike in the Yorkshire Collieries, we wish to assure our Customers that every possible effort is being made to continue our output, but we are still confining our deliveries to the Wholesale Houses, as an even distribution of the limited available supply will thus be secured.

Our Customers can greatly help by collecting and returning empty bottles for which we are prepared to pay on special terms to be had from us on application.

Any Chemist who will assist by collecting and returning bottles may thereby assure himself special consideration.

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Maw's Page.

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Passing It On.

O. Henry, the famous American short-story writer, clothes a world-old truth in humorous guise in one of his funniest tales.

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He tells of a burglar who is surprised in the midst of his depredations by the awakening of the owner of the house who is unable to move from his bed owing to being a sufferer from rheumatism. It so happens that the burglar is also a martyr. They forget circumstance and for some time swap "cures" and condolences, finally parting the best of friends.

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The truth is, in every one of us (however deep down it may occasionally be) there is the desire to "pass along a good thing."

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You can apply the instance to trading. If you gain a reputation for supplying *only that which is best*, each of your customers becomes a salesman for your business. The good news keeps "passing along."

. . . .

That is how the "House of Maw" has developed its great clientele.

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And because everything you obtain from this house, whether for the dispensing counter, sick room, or ordinary counter trade, is *always dependable*, you can rely upon us to help you build the reputation which makes every one of your buyers a word-of-mouth advertisement for your establishment.

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If our goods and service please you, you will in turn please the public.

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Sound and sensible, isn't it?

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The "Family" Douche

MADE of extra strong white enamelled tin, fitted with 6 feet of indiarubber tubing and complete set of vulcanite fittings, complete in carton.

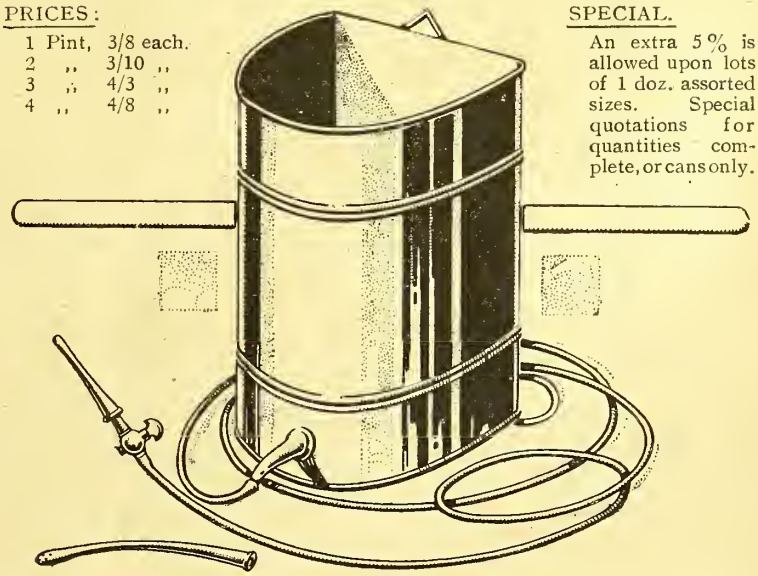
The "Family Douche" is as British as Maw's.

PRICES:

1 Pint,	3/8	each.
2 ,,	3/10	,,
3 ,,	4/3	,,
4 ,,	4/8	,,

SPECIAL.

An extra 5% is allowed upon lots of 1 doz. assorted sizes. Special quotations for quantities complete, or cans only.



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RETAILS
6d.

2-oz.
carton
(approximately)

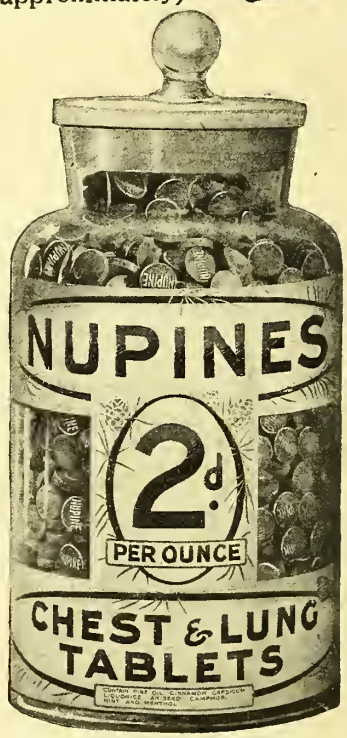
Order your Winter requirements NOW!

Is your stock sufficient to put in a good window show at the beginning of the season? So many of our customers ran short when the rush commenced last winter that we want you to order now when we can supply by return. Don't wait until you actually want them, for that means losing sales. Keep a good stock.

Sugar is still rationed, our purchases being limited to those of 1915. As the winter progresses supplies may not be so easy to obtain as they are now, so order ahead and anticipate your requirements for the season, the price is not likely to come down.

We can now supply either in bulk or packed in 2-oz. cartons, whichever you desire. The best way is to keep a good stock of both, and we send out good show matter with all orders.

Bulk prices	..	at	**2/2** per lb.
1 cwt.	.. ..	at	**2/-** per lb.
2 cwt.	.. ..	at	**1/11** per lb.
5 cwt.	.. ..	at	**1/10** per lb.
Packed in 2-oz. cartons	..		**40/-** per gross.



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The "Ucal" view is that to face the uncertainties of Pharmacy alone during the next ten years requires either sheer indifference or immense pluck.

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State dispensing may be a noble occupation but its money value is likely to be round about £200 per annum with a crowd of masters.

Pharmacists bound together by financial interests and working along the line of Commercial Co-operation can reasonably aspire to an income of anything up to four figures per annum. Just how much naturally depends upon the individual, for some men will always "lean against" the others who "stand up."

But the Pharmacist's road to Freedom and Independence with an assured income is via "Ucal."

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UNITED CHEMISTS' ASSOCIATION LTD.

Information from "UCAL, CHELTENHAM"

Ucal
The Sign of Reliability

"Every Pharmacist his own Manufacturer."

Only Possible "by Proxy" Nowadays.

In the first place, you have little time to spare for such work—and in the second, the quantities you can use are not large enough for economical methods of production.

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You can share that profit by joining "Ucal." Don't you want to?

You are not asked to buy anything from "Ucal" which you may be able to buy better or cheaper elsewhere.

Use this page as an Order Form !

PAGE 16 AYRTONS

India-Rubber Hot Water Bottles

Guaranteed IXL Quality

Made of highest grade **Grey** stock, reinforced edges, perfectly fitting stoppers, very light weight and strong.

PRICE PER BOTTLE—

8x6	10x6	10x7	10x8	12x6	12x8	12x10	14x8	14x10	16x10	16x12	14x12
3/11	4/5	4/7	5/-	4/7	5/6	6/3	6/1	7/2	7/9	8/4	7/11

3 dozen assorted lots - 6/9 per lb.

APPROXIMATE PRICE PER BOTTLE—

3/8	4/2	4/4	4/9	4/4	5/3	6/-	5/10	6/11	7/6	8/1	7/8

Hot Water Bottle Covers

Size	Ripple Fleecy in Pink, Cream, Light Blue	Plush Grey or Scarlet	Lambswool Scarlet
8 x 6	1/3	1/6	1/4 each
10 x 6	1/4	1/9	1/6 ,,
12 x 6	1/6	2/-	1/8 ,,
10 x 8	1/6	2/2	1/8 ,,
12 x 8	1/8	2/6	1/10 ,,
14 x 8	1/10	3/-	2/- ,,
12 x 10	1/11	3/2	2/1 ,,
14 x 10	2/1	3/6	2/4 ,,
16 x 10	2/3	4/-	2/6 ,,
14 x 12	2/9	3/10	3/2 ,,
16 x 12	2/11	4/4	3/3 ,,

Use your rubber stamp. Indicate the quantities you require.

AYRTON, SAUNDERS & CO. LTD.
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They always mean a pleased and satisfied Custome

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A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 2/9 a large bottle.

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Founder and Manager National Sporting Club.

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Famous Referee.

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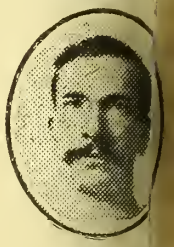

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WHAT THE SOLDIERS SAY:

Numerous soldiers have written us of the benefits derived from our Saltes Compounds when used during active service. The following are a few names selected at random from these letters, and published here by special permission:
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YOU CAN STOCK THESE GOODS ON *GUARANTEED SALE* TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.
Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

can Recommend with Full Confidence

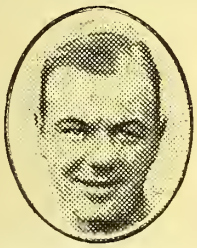
because they do exactly what our advertisements say.

PROMINENT USERS

REUDEL BATH SALTRATES

products in the highest possible terms.

JIMMY WILDE, *Champion Boxer.*



EDDIE McGOORTY, *American Heavy-weight Champion.*

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Thousands of commendatory letters on file, and open to examination by anyone.

...rs of the medical profession, trained nurses, prominent business men, ...ctors and actresses, men well known in the Army, Navy, sporting world ...alks of life are amongst thousands of the correspondents who have written ...g our Saltrates in the highest possible terms after having experienced ...rkable curative effects. The ethics of the medical profession do not permit ...ing public any physicians' names, but our files of other commendatory ...e open to inspection by anyone at any time.

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We are fortunate in being able to announce that foresight shown in the laying in of very heavy stocks of supplies in anticipation of the shortage which afterwards developed, *still enables us to guarantee full and prompt delivery of orders for any quantities.* Therefore, in spite of the present raw material difficulties and specially high drug costs, we are as yet making no advances in our prices, which remain on a pre-war basis.

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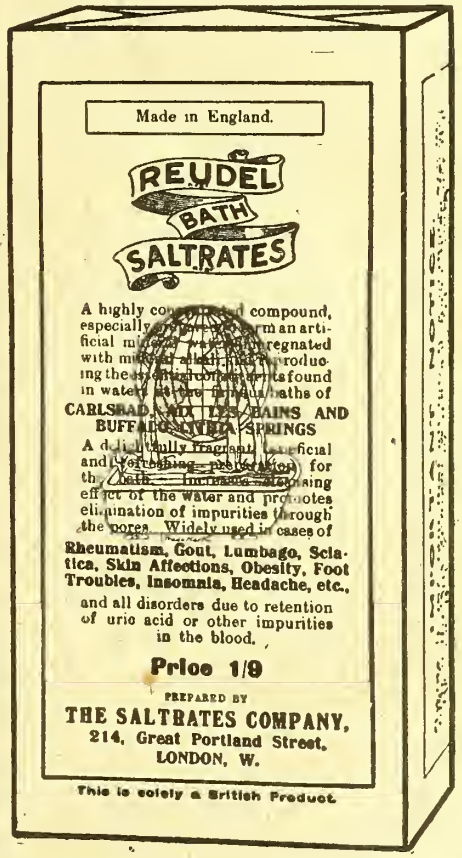

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Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

Protected on P.A.T.A. at the full face values of 1/9 and 2/9.

Antiseptic. Absorbent.

"CYNTA" Registered HYGIENIC TOWELINES FOR LADIES

COMFORTABLE CLEANLY

GUARANTEED ENGLISH MANUFACTURE THROUGHOUT.

. . . Approved and recommended by the Medical Faculty . . .

In Packets of 1 dozen.

POPULAR SIZES AND POPULAR PRICES.

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Order in good time

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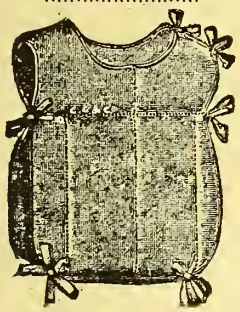

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Any special size made to order.

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IN TWO QUALITIES.

No.	Across Chest.	Shoulder to waist.	Cotton Wool Per doz.	Retail each.	Lamb's Wool Per doz.	Retail each.
1.	8 in.	6 in.	9/6	1/3	16/-	2/-
2.	10 in.	8 in.	12/-	1/6	20/-	2/8
3.	12 in.	10 in.	16/6	2/-	24/-	3/4
4.	15 in.	12 in.	20/6	2/6	28/-	4/-
5.	19 in.	13 in.	25/-	3/-	3[illegible]/-	5/-
6.	21 in.	15 in.	30/-	3/9	40/-	5/6

Owing to the large calls we always receive in the Autumn for "Zudors" we would advise customers to order as soon as possible.

CUXSON, GERRARD & Co., Ltd.

OLDBURY, near BIRMINGHAM.

SATISFY YOUR CUSTOMERS

The "Fastnet" BANDAGES

In Sealed Cylinders.

Used by Discriminating Medical Men.

The following are a few of the many advantages of the "Fastnet" Bandages over any other Water-dressing Bandages on the market :—

(1) The cloth from which they are made is of even manufacture, very absorbent and heavy texture.

(2) They are tightly rolled by a patent process, the benefit of this will be at once appreciated by the surgeon when applying.

(3) They are cleanly cut and evenly packed.

(4) They are each packed in a sealed cylinder, ensuring cleanliness in use and in storage, and require no further wrapping before sale.

Samples and prices can be had on application to Sole Agents :—

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THE CERTAIN REMEDY FOR PARASITIC MANGE IN HORSES, CATTLE, DOGS, &c.

BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

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Insecticides and all Horticultural Specialities and Sundries.

Catalogue on application

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Manufacturers and Wholesale Suppliers of everything for the Garden, Allotment and Greenhouse, such as "Abol," "Vaporite," Twines, Sticks, Labels, Clays, Nicoticide, etc.

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CANNONS, BRILLS, LIMES, PERFUMES, BAY RUMS, KALIS, CARBOYS

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Keenest Quotations sent on request, or a special representative will be pleased to call.

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BEST ENGLISH MAKE

SEA-TANGLE TENTS

(LAMINARIA DIGITATA)

For dilating the OS and CERVIX UTERI.

Introduced by SIR JAMES SIMPSON, M.D.

SPECIAL ADVANTAGES.

Firstly—They are cheaper in price than Sponge Tents.
Secondly—More easy of introduction.
Thirdly—More potent than dilators.
Fourthly—Cleaner in their use.

Lecture by PROF. SIMPSON, "Tangle Tents," at the Obstetrical Society of Edinburgh.—See Edinburgh Medical Journal for July 1864.

Manufacturer: E. BRASSE (late R. Manson)
Culvert Works, Culvert Road, South Tottenham, London, N. 15

INGRAM'S

"Eclipse" REGD

"Eclipse" REGD

HOT WATER BOTTLE

THE PERFECT BOTTLE

Ingram's High-grade "Eclipse" Rubber Hot-Water Bottles are well known throughout the world for their reliability and construction; they have, as a result of the careful scientific manufacture, the distinct advantage of being suitable for use in any climate.

All "Eclipse" Bottles are now fitted with two important inventions—the Patent Rubber Covered Screw Stopper (No. 107940), and the Patent Constructed Neck (No. 118022).

The object of the Patent (No. 107940) Rubber Covered Screw Stopper is to overcome the loss of washer and leakage. A glance at Fig. 1 shows the sectional view, the black solid parts representing the rubber covering gripping (1) the brass flange making it a fixture, so that no loss of washer is possible the broad solid seating (2) when the stopper is screwed down renders it ABSOLUTELY WATERTIGHT.

The effectiveness of the Patent Constructed Neck can be clearly seen by a comparison of Figs. 2 and 3. In addition to overcoming the old trouble of leaky necks, the new formation of the socket enables the bottle to be easily filled and without any fear of "splashing."

The socket is also secured from working loose by an ingenious method, the rubber being connected in sections right through the brass socket, forming the neck and socket into one solid piece.

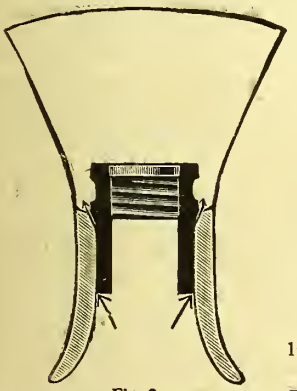


Fig. 2.
This sketch shows where, in course of time, the action of water permeates, between the brass socket and rubber, causing leakage.

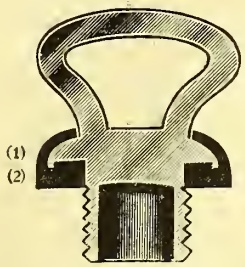


Fig. 1. Patent No. 107940

Size, inches	10x6	10x8	12x6	12x8	14x8	12x10	14x12	16x12
Minimum Wholesale Prices to Chemists.	5/1	5/7	5/7	6/1	7/-	7/3	9/2	10/5 ea.
Minimum Retail Prices.	6/9	7/5	7/5	8/-	9/3	9/8	12/3	14/- ea.

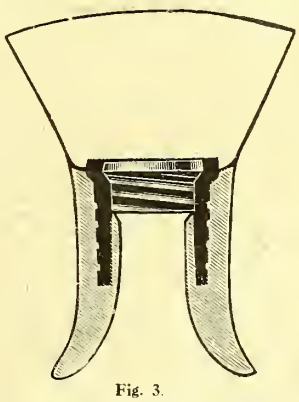


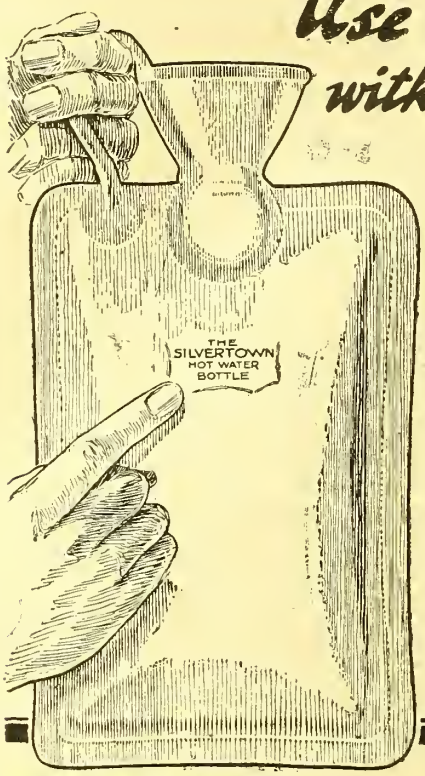
Fig. 3.
The Patent Constructed Neck (No. 118022) shows the brass socket embedded in rubber, rendering it now impossible for water leakage to occur.

J. G. INGRAM & SON, LTD.

THE LONDON INDIA RUBBER WORKS, **HACKNEY WICK, LONDON, E. 9**

ESTABLISHED 1847

Use the Hot Water Bottle with the Silvertown Reputation



The name of "Silvertown" has acquired a reputation for sterling quality and reliable service.
If your customer wants a high-grade bottle, sell him a

Silvertown

Made in the usual standard sizes. Please send us your inquiries. Customer's name lettered free on all bottles when not less than three dozen assorted sizes are ordered at the same time.

The India Rubber, Gutta Percha & Telegraph Works Co. Ltd.
(The Silvertown Company)

HEAD OFFICE: 106 Cannon St., London, E.C. 4.
WORKS: Silvertown, London, E. 16.

BRANCHES:
HOME—Belfast, Birmingham, Bradford, Bristol, Cardiff, Dublin, Glasgow, Liverpool, London, Manchester, Newcastle-on-Tyne, Portsmouth, Sheffield.
ABROAD—Adelaide, Buenos Aires, Calcutta, Christchurch (N.Z.), Durban, Johannesburg, Melbourne, Sydney.

Cotton Wool

WE are manufacturers of all kinds of Cotton Wool for Wholesale and Export Trades only.

Please write for samples and prices.

Terms carriage paid Great Britain and Ireland. Export Trade, F.O.B. British Port.

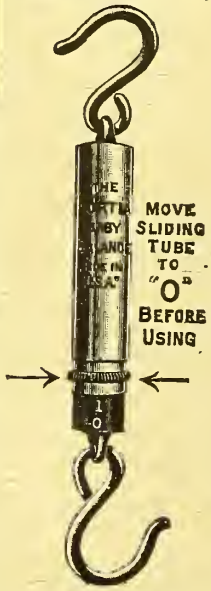
Platts Mill Co., Ltd.
Platt Bridge, Nr. Wigan
England

Telegraphic Address: "Cotton Platt Bridge."
Telephone: 658 Wigan.

Codes: Western Union; ABC, 4th & 5th Editions.

Contractors to H.M. Government

Just Arrived.



A Limited Consignment of
THE
"PORTIA"
(Regd.)
NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
30/-	3/6
dozen.	each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.
184 to 190 Goswell Rd., London, E.C.1.
Obtainable through all Wholesale Houses.

Don't be "Too Late" for the Winter Trade
Order your Supply of "Ronoleke" Bottles now

The demand for the "Ronoleke" Hot Water Bottle, now that the makers are free to concentrate on its manufacture, is enormous.
They can definitely promise prompt supplies to Chemists who apply through their Wholesale House NOW.
Later on—it will be a different matter—as no other Bottle sells so freely. The fact that the "Ronoleke" is guaranteed unleakable gives it the preference and makes it first choice with discerning Chemists.

Prices of the "Ronoleke" Hot Water Bottles

Protected on the P.A.T.A. List.

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
6″×8″	4/6	6/9
6″×10″	4/10	7/3
7″×10″	5/-	7/6
6″×12″	5/2	7/9
8″×10″	5/6	8/3
7″×12″	5/8	8/6
6″×14″	5/8	8/6
8″×12″	6/2	9/3
9″×12″	6/7	9/11
8″×14″	6/8	10/-
10″×12″	7/-	10/6
10″×14″	7/11	11/11
10″×16″	8/6	12/9
12″×16″	9/2	13/9

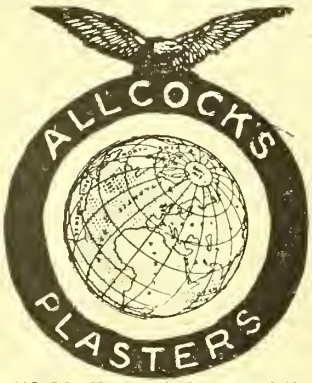
Apply for your Supply through your Wholesale House.

ESTABLISHED 1847.

Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
The Three Reliables.



Prices and Terms on application to
ALLCOCK MANUFACTURING COMPANY
22, Hamilton Sq., Birkenhead, England.

"Sold all round the World."

India Rubber Corks & Tubing

For the Chemical Trade.

SUPPLIED IN

ALL SIZES AND QUALITIES

GREY or RED.

Your inquiries solicited, upon receipt of which samples and prices will be submitted.

GARDEN CITY RUBBER CO.
LETCHWORTH, Herts.

Telephone: Letchworth 54.
Telegrams: "Rubber Letchworth."

RENDELL'S

SOLUBLE QUININE PESSARIES.

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK***, are upon each box thus:

Registered Trade Mark, without which none are genuine. No. 182,688.

W. J. Rendell
No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,

INVENTOR AND SOLE MAKER,

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

HOT WATER BOTTLES

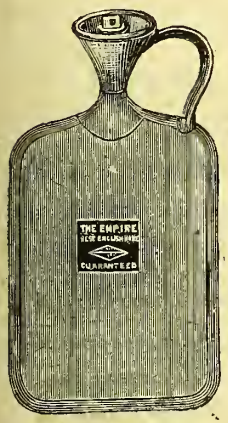


FIG. 957.—Side Handle.

The "EMPIRE" Brand

One Quality only—THE BEST. Guaranteed for 2 years.

	Sizes	6×8		6×10		6×12		8×10		8×12		8×14		10×12		10×14	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Heavy weight	each	4	0	4	4	4	8	5	0	5	6	6	0	6	3	7	0
Covers, scarlet or grey plush	,,	1	5	1	8	1	10	2	0	2	2	2	8	2	10	3	3

EACH BOTTLE IN A STRONG PAPER BAG WITH DIRECTIONS FOR USE.
5% discount allowed for prompt cash off above prices.

NOW IS THE TIME to place your stock order for these Bottles, as owing to the advance in the cost of materials and labour there will be an increase on above prices in the New Year. Make sure of your stock at fixed prices by sending us your order without delay.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT, MONEY BACK IF NOT SATISFIED.

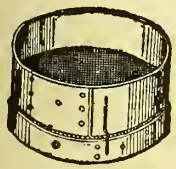
BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

BESORBON (Dr. Hill's Formula).

MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH AND COLD IN THE HEAD.

RICHARD DICKESON & COMPANY (Incorporated with REYNOLDS SONS & CO., LIMITED) 57/59 CHARTERHOUSE STREET, LONDON, E.C.1



For your **Sieves and Wire Gauze** try the actual Makers!

S. RAMSEY & CO.,

198/202 ST. JOHN STREET, E.C. 1.

Telegrams: "Methodical, Smith, London." Telephone: Holborn 6337 (3 lines).

Buy direct from the Manufacturer.

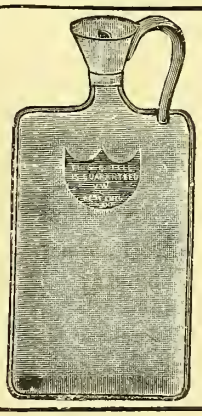
The

Bouverie Seamless Rubber Works

GLOVES, TEATS, SOOTHERS
and every description of seamless goods.

Inquiries invited. *Samples gladly submitted.*

H. NORTHCROFT, 85 Bouverie Road,
STOKE NEWINGTON, N.



VINCENT WOOD'S
(GOLD MEDAL)

Hot Water Bottles and Covers

BRITISH MAKE

BELTS TRUSSES
SUSPENSORIES
& Surgical Appliances

LOWEST CURRENT RATES

Victoria House, 91 & 93
Newington Causeway,
London, S.E. 1.

A. DE ST. DALMAS & CO.

Contractors to His Majesty's Government.

LEICESTER.

(Established 1828.)

—MANUFACTURERS OF—

MEDICAL PLASTERS

Spread Plasters. Adhesive, Belladonna, Soap Cerate, Roborans, Flesh colour Adhesive, &c.

Hospital Strapping. On Holland Pure Stout Calico, &c.

Porous Plasters. All kinds. On Cotton Cloth Red Felt, White Kid, &c

Rubber Adhesive Plaster. On Cotton Cloth or Holland—In Tins or on Spools.

Court Plasters, Toothache Plasters, Corn and Bunion Plasters, Mustard Leaves, &c.

SURGICAL BANDAGES

Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web, Crepe Velpeau, and Plaster of Paris Bandages.

THE LEICESTER "VARICO" LEG BANDAGE.

TRADE MARK.

Price 1/3 on P.A.T.A. Extensively advertised.

ATTRACTIVE SHOW BILLS. DISPLAY BOXES. WINDOW STREAMERS.

Obtainable through all Wholesalers.

TALBOT WILSON, 20 HIGHGATE ROAD, LONDON, N.W. 5

WHOLESALE ONLY. MANUFACTURERS OF Established 1901

Surgical Dressings,

Absorbent Lints, Bandages, Cotton Wools, Gauzes, &c.

Samples and prices on application.

VERNON & CO., Ltd., Penwortham Mills **PRESTON.**

Also 9 Fore Street Avenue, LONDON, E.C.

Branch Works: Waterfold Mills, Heap Bridge, BURY.

GOOD SELLING LINES, GOOD PROFITS, AND ABSOLUTE SAFETY IN STOCKING

"HOBSON'S CHOICE"

FEET PLAISTERS AND POWDERS

STOCK IS RETURNABLE AT ANY TIME, FOR ANY REASON, AND FULL PRICE REPAID.

For Prices and Samples apply to

HOBSON, TRIMBLE & CO., LTD.

Union St., and Market, LEEDS.

OYLERS' TRANSPARENT RUBBER TEATS

EXCELLENT IN EVERY WAY.

SEAMLESS, great clearness and transparency, all impurities plainly visible. Easily cleaned.

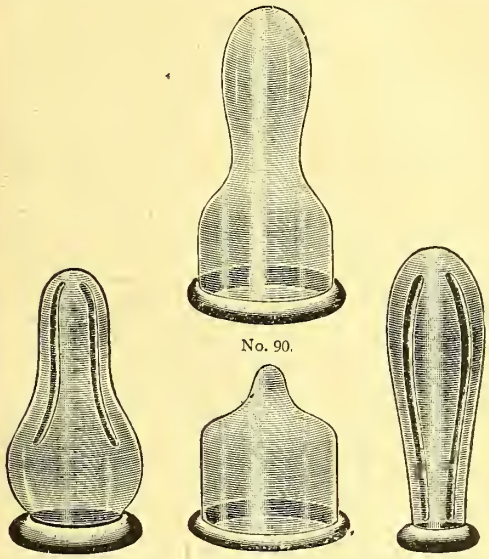
Stand all tests, including boiling, very supple and durable, grip well at the neck. Superior manufacture.

SPECIAL DESIGNS FOR SPECIAL HOME AND OVERSEAS MARKETS.

Place a trial order through your Wholesale House.

OYLERS' Ltd

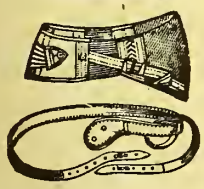
35 New Cavendish St., Harley St., London, W. 1
Wires: "Oylerism, Wesdo, London."
Phone: Mayfair 681.



J. H. HAYWOOD, Ltd.

Surgical and Athletic Appliance Manufacturers, Castle Gate, NOTTINGHAM.

Established 1833.



SPECIALITIES FOR WINTER.

SURGICAL ELASTIC HOSIERY, TRUSSES, SUSPENDERS, BRACES, LADIES' & GENTLEMEN'S BELTS for SUPPORT and WARMTH made in Fleecy, Felt, and Chamois, etc.

CHEST PROTECTORS and SLEEPING SOCKS, ELASTIC and LEATHER WRISTLETS, ARM PIECES, ELBOW PIECES and KNEE CAPS for Football, Golf and Hockey.

DRUGGISTS' SUNDRIES, INDIA RUBBER HOT WATER BOTTLES and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

LOWEST QUOTATIONS AND SAMPLES ON REQUEST.

(3)

"NORVIC" CREPE BANDAGE

(Regd.)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

"I'm ready to get off to business as soon as I get my Norvic Crepe Bandage on."

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

The NORWICH CRAPE CO. (1856) Ltd. (ST. AUGUSTINE'S SILK MILLS), Norwich, Eng.

Provincial Selling Agents, **Freese & Moon, Ltd.**, 59 Bermondsey Street, London, S.E. 1.
London Buyers can obtain samples & prices from **Mr. T. Eastaway**, London Representative, 7 Wool Exchange, E.C.2

DURING the long period of the War we were successful in maintaining the price of Gillette Blades at the pre-war level of 4/- per dozen.

Gillette
SAFETY RAZOR
NO STROPPING—NO HONING.

Owing to the continued advance in the cost of material and labour, we have to announce that as from September 1st the price of Gillette Blades to the public will be 4/6 per packet of twelve (24 shaving edges), and the price to the Trade 38/- per dozen packets, less 2½% net.

Government demand upon our factories having ceased, we are again in a position to supply the Trade through their usual factors with Gillette Blades and all styles of Gillette Razors.

The Genuine Gillette Razor and Blade bears this Trade Mark

TRADE Gillette MARK
KNOWN THE WORLD OVER.

GILLETTE SAFETY RAZOR LIMITED
184-188 Great Portland Street, London, W. 1.

It Doubles your Returns

also your profits

"EVERSAFE"

The baby pacifier with the solid elastic teat—pure jelly filled, takes preference of sale for its unique features in construction, quality, finish, and general excellence.

We invite sample orders at special rates (not repeatable) accompanied by remittance, as follows :—

1 dozen No. 2, 4½d. line	...	...	2/9 per dozen
1 „ „ 2c, 6d. „	...	...	3/2 „
1 „ „ 3, 7½d. „	...	...	4/8 „

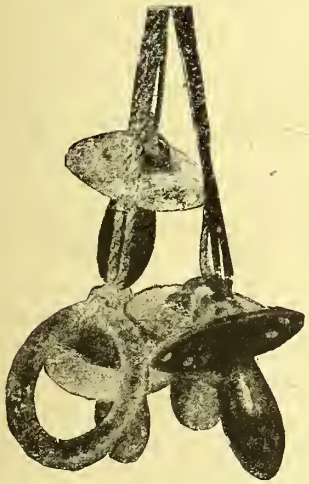
Carriage paid anywhere within the United Kingdom for 10/6, or to any part of the Wor'd for 11 6.

May be obtained in the ordinary way from the Wholesalers, or direct from

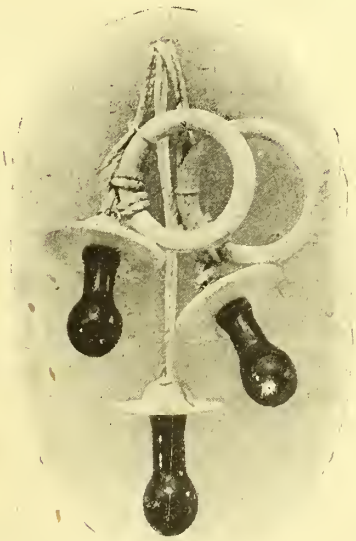
F. Schutze & Co. Ltd.

Manufacturers of Specialities in Druggists' Sundries.

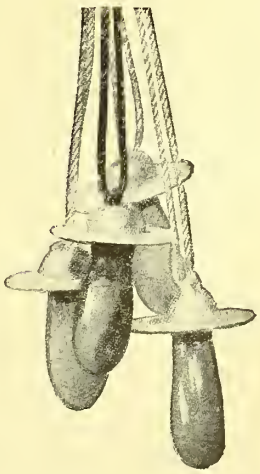
18 Market Road, LONDON, N. 7.



No, 2b, with Concave Perforated Shield. No. 3a, Concave Shield and Ring.



No. 9, Cherry Teat.
No. 11, Cherry Teat with Ring.



No. 2.

MIRRORS

Bevelled Glass.

Ivory-Celluloid, Ebony or Wooden handles, ordinary and ring handles.

NICKEL

SHAVING MIRRORS,

with Plain and Magnifying Glass.

High-class Ivory-Celluloid

Powder & Soap Boxes

PUFFS

Shaving Brushes

INCLUDING

REAL & MIXED BADGERS

Camel Hair Brushes

for Art and Medical Purposes.

WHOLESALE AND EXPORT ONLY SUPPLIED.

A. E. DEPRETER

24 Holborn, LONDON, E.C.1

Telephone: Holborn 3182.
Telegrams: "Dedepreton-Smith, London."

BIDWELLS' LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, -	18/-
Mitre - - -	14/-
Elephant - -	12/-
Anchor - - -	10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes.

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

JUST RECEIVED.

CONSIGNMENTS OF

Tooth Brushes from **4/9** dozen.

Hair Brushes **20/-** dozen.

EARLY INQUIRIES SOLICITED.

WRITE OR PHONE—

ARTHUR BERTON, LTD.,

Manufacturers,

Offices and Warehouse: **15-17 Worship Street, LONDON, E.C. 2.**

Telegrams: "Aybelim, Finsquare, London."
Phones: London Wall 507, City 998.

HONEYCOMB SPONGES

4/6 6/6 9/- 12/6 15/- } per
18/- 22/6 30/- 45/- 60/- } doz.

TURKEY SPONGES

4/6 6/6 9/- per doz.

LOOFAHS | RUBBER SPONGES

2/- 2/6 per doz. | 7/- per doz. (Special line.)

The above are very scarce, and buyers are advised to lay in stocks before Xmas.

ALL SUNDRIES ! ! (PRICES RIGHT.)

THOS. SWALES,

Druggists' Sundryman,
42 BUTT'S COURT, & 89 ALBION STREET,
LEEDS.

TOOTH BRUSHES

25 GROSS.
Full-size, with Transparent handles.
Good quality.

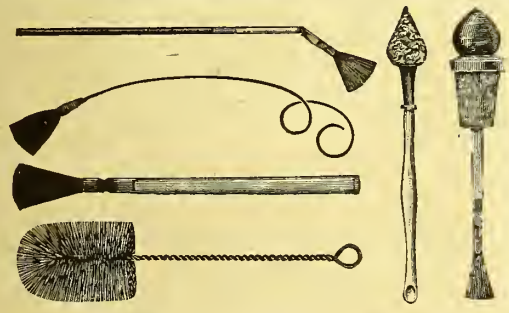
Price 90/- gross for the lot, or 96/- single gross
Sample dozen 8/6, cash with order

D. W. BULL, 4 Churchill Rd., Homerton, E.9

PURE WHITE INLEAVED ABSORBENT
COTTON WOOL in Packets

1 lb., 1/3 ; 8 oz., 1/4 ; 4 oz., 1/5½ ; 2 oz., 1/7 ; 1 oz., 1/8 per lb.
Quantities ½–1 cwt., special prices, carr. paid. Pure Mag. Carb. Levis, B.P., and Rice Starch Powder. Terms—Cash with Order.

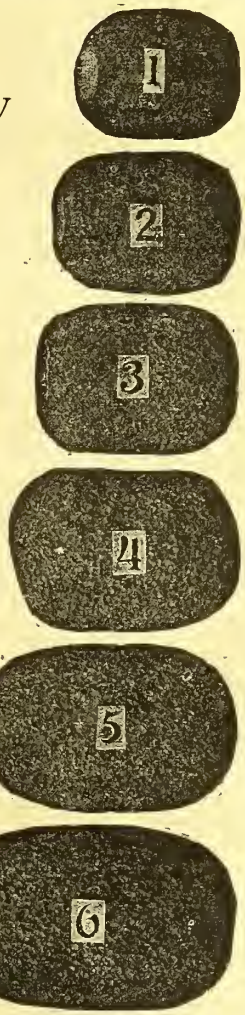
J. L. STANSFIELD, Chemist, Boothfold, Waterfoot, nr. Manchester.



Makers for the Wholesale Trade.
M. J. FECHER, LTD., Ilex Works,
Northwold Road, Stoke Newington, N. 16.

FEATHEREDGE
Rubber Sponges

LARGE STOCKS ARRIVING



THOROUGHLY SANITARY AND DO NOT HARDEN

Very **GOOD PROFITS** for the Retailer

OBTAINABLE OF ALL DRUGGIST'S' SUNDRIES HOUSES

Markt & Co., London,
—LTD.—
American Merchants,
SOLE IMPORTERS,
98-100 CLERKENWELL RD.,
LONDON, E.C.1.

THE

"PREEMO"

Trade

Mark

—REPRESENTING THE HIGHEST STANDARD YET ACHIEVED IN

CONCENTRATED ESSENCES

Floral Ottos and Compounds

FOR MANUFACTURING ALL KINDS OF TOILET PREPARATIONS.

If you are not yet using the "Preemo" Products please try them at our expense.

Send for FREE SAMPLES

All bona-fide applications will receive prompt attention.

The PREEMO Concentré and Essential Oil Co.

63 High Holborn, London, W.C. 1.

Telegrams: "APPREEMONA, HOLB, LONDON." Phone: Holborn 3095.

The "DISTOL" LABEL SERVICE

RETAILERS of "Distol" Ottos have at their command a large choice of attractive label designs, some of which are here shown. These labels are sold in quantities of 100 with neckbands *en suite* at a nominal cost which in many cases includes imprinting also. Write to-day for specimens, naming the "Distols" you are interested in.

There are 34 "Distol" Ottos, costing 6/- per oz. nett (making 80 ozs. of choice perfume). : : Ask for sample.

Most of these labels are :: :: :: stocked $1\frac{3}{4}''$ & $1\frac{1}{2}''$ high.

THOMAS KERFOOT & Co LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

COPYRIGHT

THE

"PREEMO"

Trade

Mark

—REPRESENTING THE HIGHEST STANDARD YET ACHIEVED IN

CONCENTRATED ESSENCES

Floral Ottos and Compounds

FOR MANUFACTURING ALL KINDS OF TOILET PREPARATIONS.

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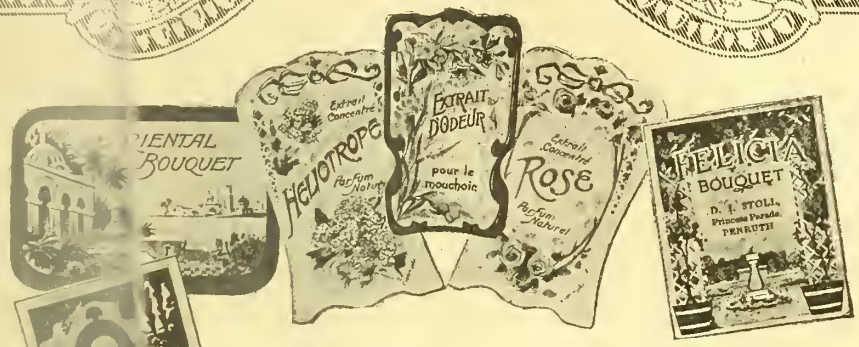

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THOMAS KERFOOT & Co. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

COPYRIGHT

"Lanzone" Lanolin

The Odourless Adeps Lanæ, B.P. Manufactured by
THE LONDON PHARMACEUTICAL REFINERS, LIMITED,
Martin's Yard, Endwell Road - LONDON, S.E. 4.

In a leading article in the "Medical Press" of June 26, 1918, occurs the following:—

"I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being seriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is '7, whereas this new English lanoline shows only '27. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners."

Samples and Quotations from the Selling Agents:
THE PRODUCE BROKERS' COMPANY, LIMITED, 24 St. Mary Axe, LONDON, E.C. 3.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone: CITY 2468.
Telegrams: "EGDARF, FEN, LONDON."

PURE SPANISH ESSENTIAL OILS

(LONABARC BRAND).

ROSEMARY
PENNYROYAL
FENNEL (SWEET & BITTER)
LAVENDER
THYME (RED & WHITE)
ORANGE
GERANIUM
SAGE
LEMON

THYMOL

ACONITE ROOT
LAVENDER FLOWERS
GENTIAN ROOT
QUINCE SEEDS

Write for samples and prices to LONABARC TRADING CO., LTD., 5 FINSBURY SQUARE, E.C. 2.
'Phone: LONDON WALL 9020.

ROURE BERTRAND FILS, GRASSE.

Established 1820.

LAVENDER (French), SPIKE LAVENDER (French and Spanish)
NEROLI, GERANIUM (AFRICAN and BOURBON), SANDALWOOD, PETITGRAIN (FRENCH and AMERICAN), VETYVER (JAVA and REUNION), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.
ORRIS CONCRETE and LIQUID.
ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES
We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES
and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:
STEPHENS BROTHERS & CO., 2, 5, & 6 Bury Court, St. Mary Axe, London, E.C.3.
Wholesale Houses only supplied.

THE name Zenobia is so intimately associated with perfection in perfumery, that the buying public eagerly welcome the Toilet Preparations also manufactured by the firm of Zenobia, Ltd. Chemists will find that the name

ZENOBIA

alone is sufficient to ensure ready sales, while the pleasure found in the use of Zenobia Specialities in its turn ensures satisfied customers. We particularly recommend

ZENOBIA BRILLANTINES.	ZENOBIA TOILET POWDERS.
-/9d. size.....6/9 per doz.	1/3 size.....10/6 per doz.
1/6 " ... 13/6 " "	2/9 " .....24/- " "
2/6 " ... 22/6 " "	-/7½d. Poudre Orientale. 5/6 per doz.

Subject to usual discount.

A complete Catalogue will be forwarded on application to—

ZENOBIA LTD., Loughborough, ENGLAND

Cresp-Martinenq
(Grasse, France),
Manufacturers of
ESSENCES & PRIME
MATERIALS for MANUFACTURING
PERFUMERS,
CONFECTIONERS,
ETC.
SYNTHETICS,
ARTIFICIAL VIOLETS
(MYRIONE).
ARTIFICIAL MUSK.

ENQUIRIES SOLICITED. LARGE STOCKS

ROBERT FERBER, LTD.
98/101 OAKLEY STREET,
LONDON - S.E. 1.

Agents for the UNITED KINGDOM & CANADA.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.
(Proprietors of THE LESCOL PERFUMERY CO.)
Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

SICILIAN

LEMON - BERGAMOT
ORANGE - MANDARINE.

SPINELLI

THE OILS THAT HAVE A LONG REPUTATION FOR QUALITY.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any :: :: :: analysis as to purity. :: :: ::

HOLLANDS DISTILLERY LTD.

Lavington Street, Southwark, LONDON, S.E. 1

A B C Code, 5th Edition
Western Union.

Telegrams: "LANDSLOH, LONDON."
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO., INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniper Berry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CITRAL

EUCALYPTOL

CINNAMIC ALDEHYDE

GERANIOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

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Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

***AMERICAN AGENTS*—O. A. BROWN CO. INC., 99-101 Beekman St., New York.**
***CANADIAN AGENTS*—F. S. JARVIS & CO., 18 Toronto Street, Toronto.**

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Introductory Offer. Cost £2, Retails 60/-—Profit 20/-.

½ Doz.	Ingram's	Milkweed Cream	Retails 2/-	Price	8 6
½ Doz.	,,	Velveola Souveraine (Face Powder)	,, 2/-	,,	8 6
½ Doz.	,,	Zodenta Paste for the Teeth	,, 1/-	,,	4/-
¼ Doz.	,,	Rouge, Light, Medium, Dark	,, 2/-	,,	4/-
½ Doz.	,,	Perfume, 1 oz. assorted in fancy packages	,, 4/-	,,	17/-
		100 Guest Room Packages free.			£2 2 0

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

Our lines are Genuine.
Large buyers of
Pomade Hongroise
Styptic Pencils
Nail Polish
Cloth Cleaners
Antiseptic Shaving Blocks
Razor Paste &c &c
Should write to:-
Delphinus Mfg. Co.,
45 Edward St.,
Brighton,
Sussex.
Telegrams "Hongroise, Brighton."
England.
Export to all Countries.

Sell the article that pays for itself.

Best attention to all orders received.

F. M. RUDD,
Bronson,
MICHIGAN,
U.S.A.

GENUINE AMERICAN
PEPPERMINT OIL

"Columbia" Natural
"Diamond White"
Re-distilled.

Finest qualities for Druggists, Distillers and Confectioners.

Sole Consignees in United Kingdom—
R. W. GREEFF & CO.
Thames House,
Queen St. Place, LONDON, E.C.

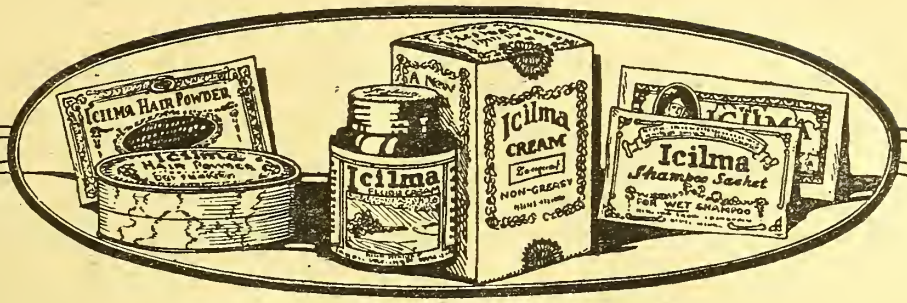
First-class Pharmacies are never without

SOTOL

Antiseptic Mouth & Throat Wash
Non-Carbolic Tooth Powder
Tooth Paste

From all Wholesalers or direct from

THE WESTERN DENTAL Mfg. Co., Ltd.
74 Wigmore St., London, W.1.
Laboratories—West Ealing, W. 13.
Advertising matter free on request. On the P.A.T.A.



Icilma

Toilet Preparations

The sales of these world-famous Toilet Preparations are stupendous and are always increasing. There is no dead stock. And this is the reason—they are *good goods and are strongly and consistently advertised* in all the leading newspapers and periodicals. Thus they offer

QUICK SALES and LARGE PROFITS

Here is an example of a window display order, supplied on the understanding that Icilma Toilet Preparations and showcards are exhibited in your window for a period of fourteen days *(full details of terms sent on request).*

92% *protected* PROFIT

Specimen **£6 order** showing **Profit of** £4 9 6=92%

	Outlay. s.	d.	Income. s.	d.
4 dozen 1/- Cream @ 10/- - -	40	0	48	0
30 ,, Shampoo Sachets - .	52	6	90	0
16 ,, Hair Powder - - -	28	6	48	0
	121	0	186	0
Less 10% -	12	1		
	108	11		
Display Allowance - - - -	10	0		
	98	11		
Cash with order 2½% - - -	2	5		
	96	6	186	0

Supplies now Normal Pre-War Quality Guaranteed

Manufacturers — Icilma Company, Limited,
Sole Distributors—International Icilma Trading Co., Ltd.,
37, 39, 41, 43, King's Road, ST. PANCRAS, London, N.W.1

FIELD'S

"SIANARA" (Regd.) Toilet Soap

With the Enchanting Perfume of OLD JAPAN.

SUPPLIED IN STANDARD **5d.** SIZE AND SHAPE.

ALSO IN

5d., 7d., 8d., and **10d.** ROUND BATH.

WE CAN NOW GIVE IMMEDIATE DELIVERY, AND CAN ALSO SUPPLY A NEW GLASS "CHANGE DISH" ADVERTISEMENT FOR COUNTER WITH ORDERS FOR ONE GROSS TABLETS.

J. C. & J. FIELD, Ltd., Toilet Soap Experts. **LONDON, S.E.1.**

Telegrams: "OZOKERIT, PHONE, LONDON." ESTABLISHED 1642. Telephone: HOP 3905.

BRITISH ODOL

Send for Price List and Trading Terms.

Revised Retail Prices.
Grand Double Flask 5/3
Full-size Bottle 3/-
Half-size Bottle 1/9

ODOL Chemical Works, BERKHAMSTED.

C.V. & S. 12.

"Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1½ dozen 7½d. selling for	11	3
¾ " 1/- " "	9	0
For 10/- cash with order, carriage paid.	20	3

7½d. and 1/- - - - 5/6 and 9/- per dozen.
From London Wholesalers.
Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists, LOWER UNION ST., BRISTOL.

LOVELY EYELASHES (A BRITISH SCIENTIFIC TRIUMPH)

City Showrooms: 23 Coleman St.

P.A.T.A. 1/, 1/9 & 3 6

EXTENSIVELY ADVERTISED

Colourless, harmlesseyelash food. Beneficial to the eyes.

25 % on small orders, 33⅓ % on Gross Lots.

CURLASH CREAM

For a small show in your window:

OUR WINDOW-SHOW OFFER		
3 Doz. @ 1/-	£1	16 0
9 Free		9 0
Returns	£2	5 0
Outlay	£1	7 0
NET PROFIT 66⅔%		18 0

With Dummies and Show-cards. Carriage paid.

THE BALDWIN MFG. CO., Ltd., 37 Berners St., London, W. 1.

VEN-YUSA
Shampoo Powders

DAINTY

ATTRACTIVE

PROFITABLE

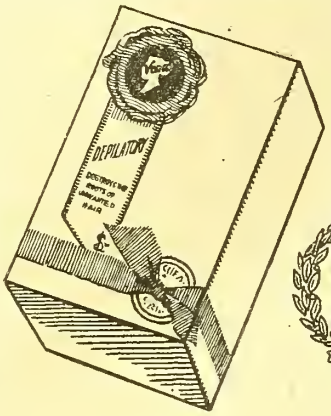
AND

Well Advertised

PRICES—3d. size, **11/-** for carton containing 6 dozen Powders.

1/6 size, **13/6** per dozen cartons

C. E. FULFORD, LTD., LEEDS.



Vena Depilatory

is 1 in 100; it hasn't that characteristic disgusting odour of the other 99. This is a selling point which scores with most ladies who object to that "tell-tale" smell. It retails readily at 4/- minimum.

Vena *Toilet Creations*

have distinction in virtue and packing, and give an air of refinement to the Pharmacy. They repeat by giving more than ordinary satisfaction. They are advertised in the ladies' papers and magazines.

TERMS: 33⅓% and 2½%, with bonus of 13 to the dozen, Cash with Order. Carriage paid United Kingdom. Send for complete list

Scott's Chemical Co.
47 Huddlestone Road,
Willesden Green,
LONDON, N.W.2.
Telephone: Willesden 77.

Nix

A dainty cream for dainty women. Instantly removes all perspiration and body odours. Retails 2/- minimum. A splendid seller.

Wavine

A non-sitcky dressing which gives a lasting wave to the Hair. Minimum retail 2/6.

Natural Essence of Peppermint.

DELECTA

Twice Rectified. French Manufacture.

The best for Confectionery and for makers of Dentifrices, Peppermint Essence, &c.

M. GILBERT, VINCENNES (SEINE).

Selling Agent for the entire World.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading Artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/6 per tin box (about 10oz.) costs 13/3 per dozen carriage paid. Cash with order.

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD
The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.

PERFUMERS! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, **London, E.C.1.**

REPUTATION COUNTS.

"Camilatone" Camomile Tonic SHAMPOOS

are the most popular hair beautifying preparations on the market.

PROFITABLE LINES.

1/-	line, for brightening only,	7/-	per doz.
5/6	" " " "	42/-	"
2/-	" for warmer shades	14/-	"
5/6	" " " "	42/-	"
1/6	" for the Nursery	10/-	"

5 packets in box.

Once sold, always asked for.

Supplied direct by

The CAMOMILE TONIC Co.
16 Lichfield Rd., Cricklewood, N.W.2

AMAMI

Amami Shampoo of Henna

To the Keen Buyer.

Will you be our Advertising Agent, and help us to push AMAMI?

We provide capital and enterprise and produce the goods; we want your aid to sell them to our mutual advantage.

Surely you would rather we shared profits WITH YOU than pay them to the public press.

Show AMAMI SHAMPOO, push it and make

105% PROFIT

OUR OFFER

3⅓ gross Amami Shampoo @ 30/-	£5	0	0
Less Window-Show allowance ...		10	0
	4	10	0
Less 5% Cash with order		4	6
	£4	5	6

Cost 2⅛d. each, sells at 4½d. P.A.T.A.

Carriage Paid. Showcards free.

£5 Orders may be assorted if preferred.

PRICHARD & CONSTANCE

(WHOLESALE) LIMITED

COURT PERFUMERS,

469 HOLLOWAY ROAD, LONDON, N.

Cables—"Amamireg, Holway, London." Phone—3170 North.

DEARBORN

LIMITED

37 Gray's Inn Road, London, W.C.

Toilet Specialities.

	Price per dozen to Retailer	Selling Price P.A.T.A.
PILENTA SOAP - A complexion Soap.	10/-	1/-
PROLACTUM - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM - A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
TEKKO PASTE - - Camphor cream.	22/6	2/6
SILMERINE - - Hair curling fluid.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads.	36/-	4/-
BARSYDE - - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey and faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town).
SIEVE BROS. & KARNOVSKY (Johannesburg).

INDIA:
KEMP & CO., Ltd. (BOMBAY).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).

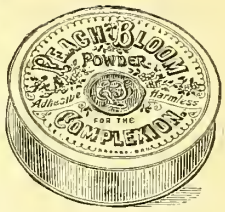
NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., CALLA SALTA, 264, Buenos Aires.

Whitecross Baby Powder

British Make throughout.

In smartly decorated tins, with sprinkler and dome top.
P.A.T.A. 10½d.; **6/-** per doz.



Peach Bloom Face Powder

British Make throughout.
No advance in price.

In various tints.
P.A.T.A. 7½d.;
3/6 per doz.

Whitecross Tooth Powder,

British Make throughout,

being a first-class article, packed in smartly decorated tins, two sizes, **3/6** and **5/3** per dozen.

☛ **The Whitecross Baby Powder and Tooth Powder have both obtained the Certificate of Merit of the Institute of Hygiene.**

Menthol and Menthol & Eucalyptus Snuff,

in special decorated tins. On the P.A.T.A. at 4½d.; **2/9** per dozen.

Tooth Paste in collapsible tubes.

All varieties, **5/-** and **6/9** per dozen; also a special new line "**Antiseptic,**" each in carton, **5/3** per dozen.

Lanoline, Oatmeal Cream, Witch Hazel, Antiseptic Honey Jelly, etc., in tubes, 5/- and 6/9 per dozen.

Bay Rhum, Bay Rhum & Cantharides, Brilliantine, Cold Cream, Eau de Quinine, and dozens of other lines in Price List, which will be sent free on application.

Decorated Tins and Plain in variety, all sizes, from 2 dr. upwards. Whitecross Ointment Tins, Vaseline, Fuller's Earth, Violet Powder, Tooth Powder, etc., etc.

Ready Again.—Ointment Tins with buyer's name round edge, and plain centre for labels. Write for particulars.

Madam Var's Henna Shampoo,

very smart wrapper in eight colours, loose 22/- per gross, one show box with each gross. Packed seven in a box, 13/3 per dozen boxes.

Special discounts to large buyers.

The CHEMISTS' MANUFACTURING Co. Ltd.
with which is incorporated
SHIRLEY BROS.
Whitecross Works, Rockingham Street, S.E. 1.

The 5/- Size of

CALVERT'S

CARBOLIC

Tooth Powder

can now be supplied as well as the 6d., 1/- and 1/6 tins.

Price List on Application.

F. C. CALVERT & CO.

MANCHESTER

Veldt Cream

(Label Title Copyright)

Soaps

These celebrated Soaps are rapidly becoming popular, being superfatted with Lanoline and of delightful Violet odour.

They are exclusively supplied to Chemists and are sold only at face value, being on the P.A.T.A. List.

		Minimum Retail	Wholesale Price
1173	"Veldt" Cream Miniature Soap Packed in 6 dozen Show Boxes	2d.	18/6 gross
1169	"Veldt" Cream Toilet Soap Packed in 1 dozen Show Boxes	6½d.	60/- ,,
1170	"Veldt" Cream Bath Soap ...	1/-	114/- ,,
1174	"Veldt" Cream (Extra Creme de Luxe) Shaving Stick ... 12 Cases per 1 dozen box.	10d.	84/- ,,

Please quote numbers when ordering.

Carriage paid on 1 gross 6½d. Tablets, or equivalent in other sizes—free cases, less 5 % 28 days.

CHEMISTS willing to co-operate will be quoted very special terms. Inquiries invited by the sole distributing Agents for home and abroad.

CHARLES & CO., Ltd.

Soapmakers - - Marshall Street, Leeds.

POUDRE MALACEINE

MANUFACTURED BY

PARFUMERIE MONPELAS, PARIS.

No. 67, Small ... 25/- doz.
,, 68, Large .... 35/- doz.

An extensive Advertising Campaign in all the principal Society Journals is now proceeding.

Write for SPECIAL TERMS and particulars of other MALACEINE PRODUCTS to the Sole Wholesale Agents for Great Britain and Ireland:

WILLIAM TOOGOOD, LTD.

77 Southwark Street,

LONDON, S.E.1.

WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window / Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.1.

BE SURE AND ADD

La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual.

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

Will you accept a 1/6 carton of Raymet Shampoos and a dainty Showcard Free?

The Showcard is a combined photographic and lithographic production, size 15 x 10, printed in delicate shades of blue and grey and worthy of a place in any pharmacy.

The carton of Raymet Shampoos contains seven packets, retailing at 3d. each, and is sent you in payment for displaying the showcard in your window.

Raymet Shampoos are rapidly becoming known as "the Shampoo that sells." Will you judge for yourself by sending for the showcard and free carton—a postcard or memo—with your name and address is all that is necessary.

RAYMET & CO., Ltd.

507-509 Harrow Rd., London, W.10.

TRADE MARK

"VASELINE" PREPARATIONS AND RELIABILITY

"VASELINE" Petroleum Jelly when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and, where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

CHESEBROUGH MFG. CO. (Cons'd.)

42 Holborn Viaduct - LONDON, E.C.1

Complete Price List of all the "Vaseline" Preparations will be sent post free on application

ANTHONY LEIGHTON

BEST SHAMPOO FOR CHILDREN

Always advertised, always selling, and *always giving that 100 %* profit to the Chemist. No mother ever misses to buy *it if she only sees it*, therefore it's good business to show it. The new glassine-faced "Playtime Kiddies" showcard is a great attraction. Have you one? It goes with every order now.

HEAVILY AND PERSISTENTLY **ADVERTISED**

SEE HOW EASY IT IS TO GET A SUPPLY ?

NOTE this! 6 doz. twin-lidded, business-compelling show outers, plenty of carrier-bags, showbills, envelopes, showcards, and 1½ dozen packets as Bonus. All Carriage Paid.

P.A.T.A

3/9 PER DOZ. | 100% | P.A.T.A. EACH 6D

—PROFIT—

GET A POSTCARD, and scratch thereon just this "C. & D. ANTHONY," and we will understand you accept our offer.

LEIGHTON LABS. 35 Gray's Inn Road, W.C.1

For LARGE BUYERS **For SHIPPERS**

Good Toilet Goods

SHAVING STICKS, BRILLIANTINES, DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH POWDERS, DENTAL CREAMS, VANISHING CREAMS, SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE. **C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL.**

The Biggest Profit on any advertised Vanishing Cream yet offered to Chemists.

Unique BONUS OFFER for

SNOWLEEN

The advertised Face Cream with a Profit of 82%

BONUS OFFER No. 16.

1 gross Snowleen 1/- @ 92/- £4 12 0

1 doz. Snowleen 1/-
2 doz. Snowleen Shampoo 3d. } FREE

Produces £8 2 0 or 82% Profit.

BONUS OFFER No. 17.

½ gross Snowleen 1/- @ 92/- £2 6 0

½ doz. Snowleen 1/-
½ doz. Snowleen Shampoo 3d. } FREE

Produces £3 19 6 or 80% Profit.

Write for samples

WHITE BAND MFG. CO., Limited,

CROYDON, SURREY.

ADVERTISERS, LOOK AHEAD!

HAVE YOU YET CONSIDERED TRADE OUTSIDE THE BRITISH MARKET? If not, you should do so.

CANADA of to-day, and the country which gives her assurance of prosperity for years to come by her inexhaustive wealth of products, offers you every facility.

To attain this extension of your trade ADVERTISE in the

"Retail Druggist of Canada."

THE MOST UP-TO-DATE CANADIAN TRADE PAPER, which will enable you to reach over **75%** OF THE CHEMISTS AND DRUGGISTS throughout that country, and literally sell your manufactures.

Write now for rates, and specimen copy, and, if you so desire, information regarding placing your goods on the Canadian Market.

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WHO ARE AGENTS, WHO DESIRE to BECOME AGENTS, OR WHO CANNOT COPE WITH THEIR ORDERS

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SEND THEIR WORK TO REPROGRAPHS

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Write for Price List. *Generous Commission.*

ORDERS DELIVERED IN 3 DAYS.

MOUSLEY'S 'BEAVERPUFF'

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

Just out. Demand great.
Delightfully soft in use.
Superior to artificial Puffs.
Write for Prices and Terms

F. A. MOUSLEY

(MAKER)

Priest Bridge, Mortlake,
London, S.W. 14.

SALES BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, **6d.**

Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd.

6 Mortimer St., London, W.

AND ALL WHOLESALERS.

Order Winter Stock Now

In almost every direction the position is much better than last year, but there is still enough uncertainty, due to incalculable factors in manufacture and distribution, to make it necessary to look well ahead.

Pharmacists are strongly recommended to place, without delay, orders for winter trade. It will be remembered how last winter the influenza epidemic caused sudden large demands ; it came so suddenly that the pharmacy run on hand-to-mouth lines lost a large proportion of this profitable business. You will be well advised this season to be prepared.

Particular attention is also directed to the following :—

Mentholated Bronchial Lozenges

Wherever a high-class lozenge can be sold, Mentholated Bronchial Lozenges may be adopted as a speciality, and recommended with confidence both for children and adults. The first sale almost invariably leads to others and to personal recommendation.

Mentholated Bronchial Lozenges are not a secret remedy ; the formula is on the tin, and many of the ingredients are well known to the public.

Last winter the sale was limited only by the sugar supply ; many times more could have been sold. The supply of tins was also inadequate.

The convenience of the flat tin is a strong selling point : so is the absence of corners on the lozenges. The profit is over 67 % on the outlay.

M.R.P. 1/- tin of 36 M.W.P. 7/2 net per dozen

Improved Bronchial Lozenges

A well-finished tablet, made by compression. The formula is disclosed, as it includes no narcotic or astringent ingredient. Improved Bronchial Lozenges may be recommended for children or for long-continued use. The profit is 50% on the outlay.

M.R.P. 9d. box of 36
M.W.P. 6/- net per dozen

Oral Antiseptic Tablets

A pleasant combination of formaldehyde and menthol with a suitable base. The convenience of the vest-pocket vial is very generally appreciated, and the one dozen display outer emphasises this feature. The demand last winter was larger than ever

	M.R.P.	M.W.P. Net per doz.
Pocket vials of 36	1/3	9/-
Bottles of 100	2/-	12/9

At the same time it is particularly desirable to replenish stocks of Boroseptic Ointment, Capsolin, Euthymol Cold Cream, Euthymol Cream, Euthymol Talcum Powder, Inhalone, Stimulating Embrocation and other preparations required in winter.

A card will bring you a list with all prices of specialities corrected to date.

PARKE, DAVIS & CO.
50-54 Beak Street, LONDON, W.1.
Laboratories : Hounslow, Middlesex.

T.J. 68

HOVENDEN'S THEATRICAL GREASE PAINTS.

These paints are manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

VIDE Testimonials.

MADE IN THE FOLLOWING SHADES:—

No.		No.	
1	Very pale flesh.	15	Brick red.
1½	Moderately pale.	16	Dark brown.
2	Fair complexion.		
2½	Medium flesh.	17	Carmine vermilion.
3	Pale complexion.		
3½	Slightly sunburnt.	18	,, light.
4	Dark flesh.	19	,, medium.
5	Sallow or Chinese.	21	,, dark.
5½	Dark sallow.		
6	Yellowish flesh.	20	White.
6½	Japanese.	23	Light grey.
7	Brown.	24	Dark grey.
8	Armenian Bole.	25	Old red.
9	Sunburnt or Indian.	26	Light blue.
		31	Middle blue.
10	Light brown.	27	Dark blue.
11	Burnt umber or Othello.	28	Light yellow
		29	Dark yellow.
12	Black.	30	Rose.
13	Red brown or Mulatto.	32	Dark rose.
14	Chocolate or North African.		Chrome.
			Citron.

5/- doz. Sticks.

Special quotation for quantities.

OPINIONS FROM POPULAR PEOPLE.

Mr. MARTIN HARVEY, Grand Theatre, Hull.

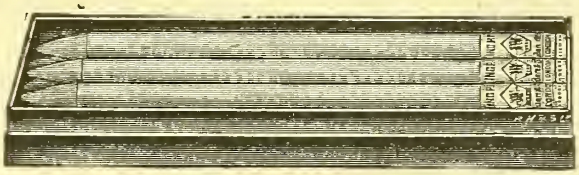
"I have been intending for some time to send you a testimonial about your Grease Paints. I have given them a good trial now, and I think I can honestly say that they are superior even to the German, and that, alas! is saying a good deal. I compliment you heartily upon your achievement."

Mr. WILL EVANS, Theatre Royal, Drury Lane.

"I thank you for sample of your Grease Paints you sent, and I find it a very excellent preparation. I shall certainly continue to use it."

Mr. PHIL RAY.

"Not being fortunate enough to receive a sample of your excellent Grease Paints, I purchased same for myself, and after a lengthy trial I have no hesitation in saying that, from my point of view, it is immeasurably superior to any foreign make."



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English Manufacture.

Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine.

3/3 per doz. Sticks.

Subject to 2½% Cash Discount. A copy of our Monthly Illustrated List will be sent on application.

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CHAPOTEAUT'S CAPSULES of
PHOSPHOGLYCERATE of LIME.
THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.
Sold by all Chemists.
Wholesale: 8, Rue Vivienne, PARIS.

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CAPSULES

MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.

SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)
A harmless antiseptic preventative against CHOLERA-FERMENTATION-INDIGESTION & other intestinal disturbances.
SOLD BY ALL CHEMISTS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

IT PAYS TO PUSH
JOHN BOND'S
"CRYSTAL PALACE" MARKING INK

Assured Profit, 33⅓%

Assured Profit, 33⅓%

6d. size, **3/9** per doz., Minimum protected selling price, **5d.** 1/- size, **6/9** per doz., ditto **10d.**

This will show retailers a profit on the 6d. size of no less than 33⅓ per cent. The rate of profit on the 1/- size will remain the same.

MINIMUM ORDER AT WHOLESALE RATES:—One Cross of 6d. size amounting to 40/- or assorted order to same value. 1/- size 70/- per gross. Carriage paid on Parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference.

Manufactory: 75 SOUTHGATE ROAD, LONDON, N. 1.

We Develop Films and post back Next Day
„ & Print „ „ „ in Two Days

Plates, Flat or Roll Films, developed, printed, enlarged, retouched, etc. We lay our works out to supply Pharmacists with good work at reasonable prices, with quick dispatch. Price List on application. Monthly accounts without fuss.

ARTHUR J. C. LEWIS, The Chemists' Photographic Printers, NEW BARNET

BARDSLEY'S No. 96 SACK TRUCK

We are more than pleased at the number of testimonials we are receiving every week as to the good value these trucks are.

Carriage Paid 42/6 Cash with order

BARDSLEY'S, Truck Specialists, FRINTON-ON-SEA.

ROLL FILMS DEVELOPED

AND DESPATCHED DAY AFTER RECEIPT.

Express Developing Co.,
86, High St., Whitechapel, E.C.

Speciality: Chemists' Enlargements and **ALL** Practical Photographic Work.

Contact Prints. Coloured Miniatures. Post Cards. Carbons

Send for Price List of our Profitable Chemists Side Lines.

SAVE 3/- PER GALLON

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GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

PIPES AND SMOKERS' REQUISITES.

Price Lists on Application.

HARWOOD BROTHERS,

BRIAR PIPE MANUFACTURERS,

8/20 Richmond Street, LIVERPOOL.

The Evan-Williams

Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

ORIGINAL HENNA **SHAMPOO.**

Telephone: 138 Pendleton. ESTABLISHED 1855. Telegraphic Add.: "Champagne Manchester."

B. ROBINSON & CO., Ltd.

PENDLETON, MANCHESTER.

CONCENTRATED WATERS

Aqua Amygd. Amar. Conc. (U.S.)	Aqua Cassiæ Conc.	Aqua Pimentæ Conc.
,, Anethi Concent.	,, Flor. Aurant. Conc.	,, Pulegii ,,
,, Anisi ,,	,, ,, Sambuci Conc.	,, Rosmarini ,,
,, Camphoræ ,,	,, Fœniculi Conc.	,, Rosæ ,,
,, Caryophyl ,,	,, Menth. Pip. Conc.	,, ,, Virgin Conc.
,, Carui ,,	,, ,, ,, Ang. Conc.	
,, Cinnam. Ver. Conc.	,, ,, Virid. Conc.	

WHOLESALE TERMS ON APPLICATION.

Robinson's Concentrated Waters are stocked by all the best known Drug Houses. Chemists are advised to get into direct communication should they experience difficulty in obtaining them. They are unsurpassed by any other make.

STANDARDISED TO B.P. 1914. Customs drawback on Export Orders now allowed. Inquiries solicited, which shall have prompt attention. Samples **Free to the Trade.**

NOTE.—These ORIGINAL Concentrated Medicinal Waters (1-40) still maintain their foremost position.

REFUSE ALL SUBSTITUTIONS OR IMITATIONS.

IT PAYS TO PUSH JOHN BOND'S "CRYSTAL PALACE" MARKING INI

Assured Profit, 33⅓%

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6d. size, **3/9** per doz., Minimum protected selling price, **5d.** 1/- size, **6/9** per doz., ditto **1d.**

This will show retailers a profit on the 6d. size of no less than 33⅓ per cent. The rate of profit on the 1/- size will remain the same.

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We Develop Films and post back Next Day
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BARDSLEY'S No. 96 SACK TRUCK

We are more than pleased at the number of testimonials we are receiving every week as to the good value these trucks are.

Carrie Paid 4/6 Cash wn order

BARDSLEY'S, Truck Specialists, FRINTON-ONSEA.

ROLL FILMS DEVELOPED

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Express Developing Co.,
86, High St., Whitechapel, E.C.

Speciality: Chemists' Enlargements and **ALL** Practical Photographic Work.

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Post Cards.
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Send for Price List of our Profitable Chemists Side Lines

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

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Telephone: 138 Pendleton. ESTABLISHED 1855. Telegraphic Add.: "Champagne Manchester."

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ENDLETON, MANCHESTER.

CONCENTRATED WATERS

Aqua Amygd. Amar. Conc. (U.S.)	Aqua Cassiæ Conc.	Aqua Pimentæ Conc.
,, Anethi Concent	,, Flor. Aurant. Conc.	,, Pulegii ,,
,, Anisi ,,	,, ,, Sambuci Conc.	,, Rosmarini ,,
,, Camphoræ ,,	,, Fœniculi Conc.	,, Rosæ ,,
,, Caryophyl ,,	,, Menth. Pip. Conc.	,, ,, Virgin Conc.
,, Carui ,,	,, ,, ,, Ang. Conc.	
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GATES' BOTTLE CAPPING SKINS

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. Used by all the Leading Perfumery and Drug Houses. ABSOLUTELY AS OPAQUE as Split Skins and equal in appearance.

"Mine beat all others."

"SOLE PIONEER"
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Another New Speciali y.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

To Perfumers and Druggists.

If you wish to get the best value for money follow the lead of all large consumers, and place your orders for

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OPAQUE and TRANSPARENT, with

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My Capping Skins are known to all large consumers to be the best on the market both for quality and price. They are all manufactured in London. Write for samples and particulars and compare with your present supplies, and see what I save you.

OPAQUE ROLLED SKINS made to order if required.

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A WHITE HAT adds to the appearance of a good-looking man,
A WHITE CAP adds to the appearance of a good-looking bottle, if it is a

SEMREH

SELF-FIXING BOTTLE CAP
Let us send details of our white (transparent and opaque) or coloured caps.
THE VISCOSE Development Co., Ltd., BROMLEY — KENT.

Pyramid Corks

PYRAMID TRADE MARK

Named aft r he ancient pyramids because of their dependable qualities, and if you look for the trade mark and see always that you get "Pyramid" Corks, your troubles are abolished. *Get some to-day.*

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Proprietors—THOMAS KEANE & SON, Ltd.

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Sole Manufacturers of the
CHEMISTS' EXCHANGE CASE,
Complete with 8 trays (with 7 or 18 Divisions to each tray). Size 14×9×6.

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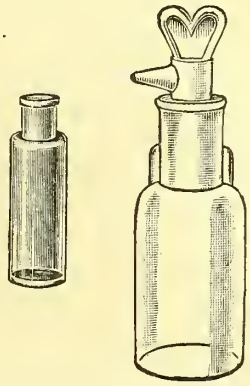
Factory — EXCHANGE WORKS, OLD MEETING STREET, BIRMINGHAM.

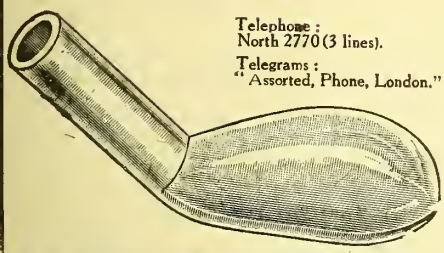
BUY YOUR GLASS FROM STOCK

We cannot stock everything, but we can safely say that we have stock of the most saleable lines, including vials.

We have stocks of 6-oz. and 8-oz. plain and graduated Medicals, and also a small quantity of tinted 3-oz., 4-oz., 5-oz., and 8-oz. Flat Poisons.



½ oz., 1 oz. & 2 oz.



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CHARLTON WORKS, CHARLTON PLACE,
(Opposite Agricultural Hall) ISLINGTON, LONDON, N.

Warehouses also at Barnsbury and off City Road.

PLATE & SHEET **GLASS** OF EVERY Description.

Plate Glass with Polished Edges for Surgical Tables, &c.

GLASS SHELVES, MIRRORS, &c.

Bevelling, Polishing, Silvering, Glazing, &c. &c.

JOHN M. **NEWTON** & SONS, LTD.

20, 21, 22 & 23 Charles St., Hatton Garden, London, E.C.1

"CORRUGATED" ROLLS AND BOXES (Collapsible)

Special Offer this week. 100 Rolls Standard Quality Corrugated 20" × 250 ft., **9**/- per Roll to clear, 50 Rolls **9/9**, 20 Rolls **10/6**, 2 Tons of Corrugated Offcuts 3" × 40", 4" × 20" to 6½" × 40", **£22 10** to clear, **£23 10** for one ton, **26**/- per cwt.

IMPORTANT. Address all letters to:
I. M. RICHARDSON, *Manager*,
GUILDHALL CORRUGATED PACKING MATERIALS CO.
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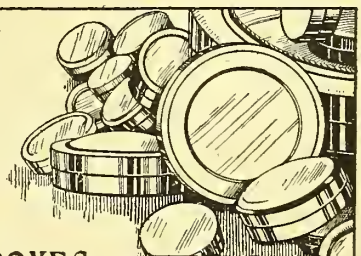
PRODUCERS *of* BETTER CLASS CONTAINERS *and* FITTINGS *for* MANUFACTURERS *of* TOILET *and* SIMILAR PREPARATIONS



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SCREW CAPS & SMALL ROUND BOXES IN ALUMINIUM & OTHER METALS
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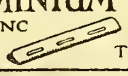

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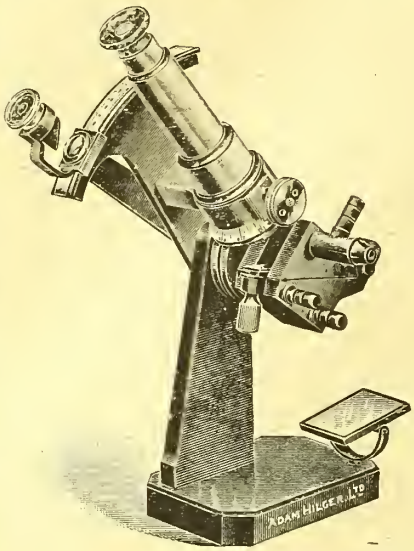
BRANDED TO YOUR INSTRUCTIONS

THE ABBE REFRACTOMETER



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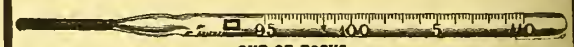

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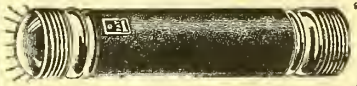

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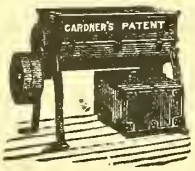

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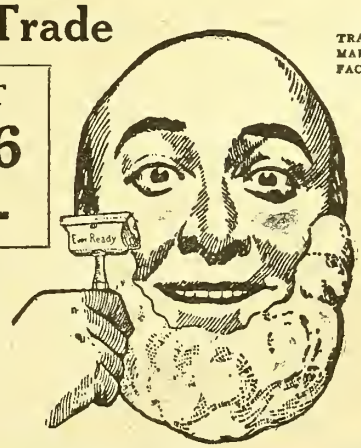

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Known, Admitted, and Approved Remedies.

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1920, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C. 4

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

"Government Prices" Order.

One of the abuses to which the fixing of maximum prices by the Food Controller has led is that, though the prices are merely "maximum prices," they are treated as fixed prices, and the Ministry of Food is blamed on the ground that, but for the "Government price," the article would be sold cheaper. Placards with "Government Controlled Prices," or similar expressions, are used, which suggest that the Government is authorising the prices charged. The Food Controller has, therefore, made an Order definitely prohibiting the use of any notice containing the words "Government prices," "Controlled prices," or similar expressions, unless the word "maximum" is inserted immediately before the word "price" in each case, or unless the notice or statement in some way states clearly that the price referred to is the highest price that may be charged.

Pharmacy Pupils.

One of the features of the measures for resettling ex-Service men in civil life is the Government scheme whereby ex-officers and other ranks of good education may be assisted to take up or resume training for business and professional careers. In the phase of the work dealt with by the Appointments Department of the Ministry of Labour, training is arranged for in offices and works, etc., and the co-operation of employers is therefore essential to success. Many employers have responded to the appeal which has been made to them with the greatest willingness, and although the scheme has only been working fully for a comparatively short time, over 3,500 students are now in training. A large number of candidates have shown themselves anxious to qualify as chemists and druggists, and up to August 22 training vacancies have been found for about 500. The number of applicants is, however, greatly in excess of the number of training vacancies available, and employers who can help by offering to train suitable candidates are requested to communicate with the nearest Distict Office of the Appointments Department. Where necessary, grants are made to students to assist in payment of their fees and maintenance during the period of training.

"Standard" Retail Price List.

The alterations for the month in the "Standard" Retail Price List brought out by Mr. Charles Philip, pharmacist, 23 High Street, Herne Bay, include the following: *Drugs.*—Amyli pulv. (maize), 1*d.* oz., 1*s.* lb.; creosotum Ang., 1*s.* 5½*d.* oz.; ess. menth. pip. (1 in 20), 1*s.* 3*d.* oz.; ext. casc. sag. liq., 6½*d.* oz.; ferri et amm. cit. 8½*d.* oz.; lin. terebinth., 5½*d.* oz.; mag. carb. pond., 3½*d.* oz.; ol. caryoph., 2*s.* 1*d.* oz.; ol. menth. pip., 1*s.*, dr.; pot. brom., 7½*d.* oz.; safrol, 9*d.* oz.; tinct. iodi fort., 11½*d.* oz.; vin. ipecac., 7½*d.* oz. *Packed Goods.*—Castor oil, 4 oz., 1*s.*; 8 oz., 1*s.* 7½*d.*; cod-liver oil, 4 oz., 1*s.* 4*d.*, 10 oz., 2*s.* 10*d.*; glycerin, 2 oz., 9½*d.*, 4 oz., 1*s.* 3½*d.*; malt and cod-liver oil, 1 lb., 2*s.* 3*d.*, 2 lb., 3*s.* 11*d.* *Sundries.*—Lint, 6*d.* oz., 5*s.* 10½*d.* lb.; boric lint, 4*d.* oz., 4*s.* lb.

Birmingham.

Gas and electric current are to be still dearer in Birmingham.

September appears to be the favourite month for the *élite* of Birmingham pharmacy to take a holiday.

A well-known pharmacist living in a suburban area has lately appeared in a new rôle as a judge of fruit and vegetables in an Allotment Show.

The pharmacists of King's Heath are benefiting by an influx of shoppers from Moseley, where purchasing conditions are popularly believed to be inferior.

Mr. J. B. Mee, chemist and druggist, formerly the manager of a pharmacy in Colmore Row, has taken up the study of medicine, and has passed his examination in biology.

A handbook to the Birmingham Commercial Library (in the Council House extension) has just been issued. Colonial and foreign trade directories are a recent acquisition to the library.

Dr. A. B. Hill, who is relinquishing his professorship of hygiene at Birmingham University after forty years' tenure, will retain an interest in the firm of Hill & Rigby, analysts.

The following are among the prices formerly charged by a certain John Green, "druggist and grocer," as quoted in the "Birmingham Weekly Post": Salad oil, 3*s.* 4*d.* gall.; linseed oil, 3*s.* 3*d.* gall.; Spanish juice, 10*d.* lb.; tobacco, 2*s.* lb. This was before the war—to be exact, the date was 1777.

There is to be a "rat week" in Birmingham, and local pundits are airing their knowledge of vermin-destroyers in the Press. Perhaps the old remedy of tarring a live rat and letting it loose is really the best. Carbon bisulphide, bromine, and chlorinated lime are also "highly recommended."

At Pontesbury, recently, Arthur Wathes and Charles Henry Wathes, dairymen, Birmingham and Minsterley, were summoned for emptying whey into a stream. The Bench allowed the withdrawal of the summons on payment of compensation. Mr. Arthur Wathes began his career as a pharmacist, qualifying, after experience with P. Harris & Co. and a course of study under Mr. F. H. Alcock, F.I.C., Ph.C., in 1898.

A full-time course in chemistry (theoretical and practical), botany, pharmacy, and dispensing, begins at the Municipal Technical School, Suffolk Street, on October 6. The fee is 20*l.*; application for admission should be made to Dr. T. Slater Price. A provisional time-table has been published with the note: "These courses are intended to prepare apprentices of chemists and druggists for the Minor and Major examinations of the Pharmaceutical Society." Wednesday afternoon classes, to extend over three sessions, open on September 24.

Liverpool.

Saccharin tablets are a feature in some of our pharmacy windows.

Rather late in the season there has come a run on fly-destructors.

Mr. L. Walker has had the Manor Pharmacy, Great Crosby, renovated.

Better weather, better trade, and a revival of the holiday traffic are reported.

Tooth-brushes at a lower price than 2*s.* 6*d.* are in demand, and the demand is being met by British makers.

Mr. A. S. Furniss, Secretary of the Liverpool Chemists' Association, has addressed a letter to members of the Association calling attention to the desirability of beginning to make arrangements for the British Pharmaceutical Conference of next July.

A man (a stranger) entered a local pharmacy and asked for a bottle of cough-mixture. While the bottle was being wrapped up the pharmacist heard a crash, and found a chair had collapsed—with the customer on it. Who should pay for the damage to the chair, the customer being uninjured?

Miscellaneous.

The Epsom Rural District Council has obtained 5*l.* per lb. for oil from the crop of peppermint grown at its outfall works.

Bowls at Blackpool.—Several pharmacists are connected with the Marton Club, Blackpool, and on September 3 they took part in a bowling handicap which they had organised. The final was between Mr. W. Cardwell and Mr. T. Nuttall, the former winning (score, 15—11).

Sugar Supply.—The Royal Commission on the Sugar Supply gives notice that, owing to shipping delays it is compelled for the present to restrict allocation against manufacturers' vouchers to 75 per cent. of the 1915 usage. It is hoped, however, that future arrivals will enable it to make up the arrears in supply.

Drug-workers' Wages.—Some misapprehension appears to have arisen as to the agreement for an increase of wages which was arrived at between the drug-workers' representatives and the Drug and Fine Chemical Workers' Association (*C. & D.*, September 6, p. 42). The fresh advance is 5*s.* a week to all male workers, with the exceptions indicated last week.

Edible Oils for the Soap Trade.—The Food Controller has a temporary surplus of cotton and soya oil, and he has decided to release 5,000 and 6,000 tons respectively to the soap trade. The price to be paid by soap makers for the cotton oil is not to exceed 95*l.* per ton net naked ex mill, and for soya oil the price must not exceed 83*l.* to 87*l.*, according to packing. The Soap Makers' Federation have agreed to arrange for the allocation of the quantities.

In the Courts.—At Marlborough Street Police Court, London, on September 6, Harold E. Rosborough, Royal Automobile Club, Pall Mall, S.W., was sentenced to a month's imprisonment in the second division for assaulting Isaac J. Charles, assistant in a Piccadilly pharmacy. The prosecutor stated in evidence that while he was in his employer's shop on September 5 prisoner entered and asked to be treated for the bite of a cat. Prosecutor told him he could not treat such a case, and the prisoner got annoyed, struck him several times on the face, and damaged some things that were in the shop.—At Rotherham Police Court, recently, George Hardwicke was fined 5*l.*, with 5*l.* 12*s.* costs, for placing on land adjoining a cottage poisoned wheat (not being sown grain), pieces of meat, and maggots. It was stated in evidence that the wheat and other articles were found smelling of phosphorus, and that chickens had been killed by this agency. Mr. John Evans, Ph.C., analyst, Sheffield, was among the witnesses for the prosecution.—At Bournemouth, on September 10, Arthur C. Jocelyne was bound over on a charge of obtaining cocaine, he being an unauthorised person. The evidence showed that the accused presented prescriptions, bearing the name of a London doctor, to three local chemists, but it was discovered that the prescriptions had been copied from the original prescription given in 1904.

Poisoning.—An inquest was held in Lewisham, London, on September 4, on the body of Annie E. Emblem (40). Alfred James Emblem, deceased's son, said that on September 1 his mother complained of a bad headache She went to a grocer's shop, bought a headache-powder, and after taking it went to bed. During the afternoon she became very ill, and he went for a doctor. Dr. C. M. Browne stated in evidence that he went to the house and found the woman semi-conscious and insensible to pain. The circumstances pointed to the action of a strong depressant. The Coroner asked if antifebrin was the drug used in headache-powders of the kind described, and the doctor said he believed it was, adding that it was the least reliable of drugs, but it was the cheapest. So far as he could gather the dose was small, but the drug had different effects on different people. Death had resulted from respiratory failure due to the action of the powerful depressant drug contained in the powder. The Coroner returned a verdict of "Death from misadventure."

Wages in the Cork-trade.—We are informed by the Cork Trade Association that, owing to trade-union demands, the pre-war rates of wages in this trade have been greatly increased. The Association is of opinion that conditions in Spain and Portugal tend to raise prices still further. Wages in both those countries are higher than ever; and now that the Central Powers are coming into the markets prepared to pay almost any price to secure stocks, it appears probable that before long the prices of corks will have to bear more than the present increased wages-bill in the United Kingdom. The rates of weekly wages agreed upon between the Association and the Dock, Wharf, Riverside, and General Workers' Union include the following: *Wholesale and Retail Sections.*—Sorters and order men, 65*s.*; head foremen, 75*s.*; female sorters (1st class), 40*s.*; boys under sixteen, from 16*s.* *Manufacturing Section.—Porters and unskilled workers*, 60*s.*; female unskilled workers, 32*s.* 6*d.*; girls, from 14*s.* The working week is to be one of forty-eight hours.

Irish News.

Brevities.

Mr. R. F. McCartney, J.P., Ph.C., Chairman of the Coleraine Urban Council, entertained the members of that body to lunch last week on the occasion of the annual inspection of the waterworks.

Among the shops in Fermoy wrecked on September 7 by soldiers, who broke the windows of several establishments, apparently in retaliation for the outrage on their comrades in that town, were: Mr. White's, chemist, completely wrecked and looted, probable damage 200*l.*; Dr. Magnier's chemist establishment, shop-windows smashed, shop looted, damage 200*l.*; Mr. Broderick's, chemist, windows and fittings broken and stock looted, damage 300*l.*

When Mr. George Moreland, an assistant in Baxter, Ltd., chemist, Church Street, Ballymoney, was returning from Portrush on a motor-cycle on September 5, he came into collision at Wattstown with a motor-lorry. He was rendered unconscious, and his thigh-bone dislocated. A young man named Ross, also an assistant in Baxter, Ltd., who was with him, injured.

Drug Workers' Strike.

The porters, packers, vanmen, and draymen who are members of the Irish Transport Workers' Union and were employed by the members of the Dublin Wholesale Druggists' Association went on strike on September 8 to the number of between 200 and 300. Five Dublin firms are affected. The men had previously given a week's notice, their action following on a refusal to grant them increases of wages asked for. Mr. J. W. Middleton, Hon. Secretary of the Dublin Wholesale Druggists' Association, interviewed on the subject, stated that an application for an advance of wages averaging 11*s.* per week was made last June. After prolonged negotiations, in which it was explained that, owing to Government control of prices and to the impossibility of getting manufacturers to allow a living profit to the wholesalers, together with the difficulty of obtaining supplies, any further charges on their business would mean reducing their profits to vanishing point. To prevent trouble and inconvenience to the public, however, the members of the Association at first offered an increase of 2*s.* per week, and ultimately increased the offer to 3*s.* per week, which, in the opinion of the members, is beyond the line of safety. This offer was refused.

Chemist Censured.

Dr. Louis Byrne, Coroner for the City of Dublin, held an inquest on September 8 on the body of an infant named Margaret Mary Fox, aged seventeen months. The father of the child gave evidence to the effect that on the previous Wednesday they noticed the child coughing and gave her some cough mixture. On the Thursday night, as the child was not better, the mother went to the establishment of Mr. James S. Corcoran, Ph.C., 76 Talbot Street, Dublin, and gave the particulars of the child's condition to an assistant, from whom she received a bottle of mixture. On Saturday night the mother saw Mr. Corcoran, who said the child must be teething and supplied a cooling powder. The child became worse on Sunday morning, and died before the doctor arrived. Dr. J. J. Delaney stated that death was due to broncho-pneumonia of several days' standing. Police-Sergeant Whelan said he had notified Mr. Corcoran that an inquest would be held. An assistant in Mr. Corcoran's shop was in court, but when called he declined to give evidence. The Coroner, addressing the jury, said in his opinion there was nothing injurious or poisonous in the medicine which had been supplied from Mr. Corcoran's, and he did not believe it had any bad effect. The serious thing about the matter was that a chemist should take on himself the responsibility of prescribing for a child he had not seen. He considered the management deserved severe censure; and if the jury agreed with that view it was their duty to say so. The jury returned a verdict that the child died from broncho-pneumonia, and added a rider that they considered Mr. Corcoran guilty of neglect in not sending the parents of the child to a doctor.

Scottish News.

Brevities.

The retail prices of malt extracts are being advanced by 2*d.* to 3*d.* per lb.

An agricultural-poison licence has been granted to A. N. McIntosh, grain merchant, Dumfries.

Mr. James Stewart, chemist and druggist, has opened a pharmacy at 46 West Church Street, Buckie.

Mr. G. Y. C. Cooper, chemist and druggist, has acquired the business of Mr. Thomas Girdwood, chemist and druggist, Keptie Street, Arbroath.

The Montrose Infirmary authorities have decided to have their prescriptions dispensed at a pharmacy, instead of, as hitherto, at the dispensary of their institution.

The Sheffield assistants' wage-scale (*C. & D.*, September 6, p. 64) has been received in certain Scottish circles with something like consternation. A recently demobilised pharmacist who asked a prospective employer for a salary of 5*l.* a week was told that his request was unreasonable.

In the course of a letter to an Ayrshire newspaper, Mr. Martin Meldrum, Secretary of the South Ayrshire Pharmacists' Association, observes: "Methylated-spirit drinkers are a decided pest to pharmacists, and not infrequently a chemist has to stand dogs' abuse from morally depraved persons whom they have refused to supply."

Dundee.

Hardie & Son, chemists, High Street, are advertising for "clear, useable medicine-bottles" in the local Press.

The front page of the Dundee "Courier" of September 4 contains six advertisements from pharmacists, three of which are devoted to the photographic department.

Edinburgh.

The autumn holiday falls on September 15.

Several consignments of German glassware have arrived at Leith.

Classes in chemistry and pharmacy commence at the Heriot-Watt College on October 14.

Sir Leon Levinson, who was knighted recently, was at one time in the employ of a well-known Edinburgh pharmacist.

The establishment of a school of chemical and other research in Edinburgh is suggested by Mr. James Glass, who recently gave 20,000*l.* to the Edinburgh Merchant Company for the teaching of science; his aim, he states, is to raise 250,000*l.* for this purpose.

The lady had entered the pharmacy to purchase a comb; so she alleged. But the chemist noted sorrowfully that an attempted withdrawal was being prepared. He was not surprised therefore when she murmured, "None of those combs looks very strong." The chemist seized one which bore the legend "Unbreakable" upon its back. "Could you get anything stronger than that?" he asked. She bought one.

Fife.

David Gilmour & Son, chemists, Dunfermline, have removed from Bridge Street to 5 Chalmers Street.

Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, has been elected Chairman of the District School Management Committee.

A photographic chemist in a Fifeshire coast town was asked by a visitor to let him have a spool developed by the following morning. "Come this way, please," said the harassed chemist. In silence he pointed to a pile of six to seven dozen rolls of films awaiting treatment.

Glasgow.

A woman whose name is given as Napier or Law has died in the Royal Infirmary from taking an overdose of carbolic acid.

The Scottish Co-operative Wholesale Society, Ltd., announces that for the six months ended June 28 its net sales amount to 11,732,878*l.*—an increase of 28.7 per cent. on the corresponding returns for 1917. The employés at the Society's Grangemouth soap factory have struck for a forty-four hours' week.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Presentation.—An interesting event took place on Thursday, July 31, at Messrs. Lennon's Port Elizabeth premises, when Mr. G. Jackson was the recipient of a teak Morris chair, oak smoking-cabinet, and a purse of gold. The occasion was the completion of forty-one years of service with the company, the whole of which time has been spent at Port Elizabeth. Mr. J. H. Carter (managing director), in making the presentation on behalf of the company, laboratory, and Main Street staffs, laid stress upon Mr. Jackson's valued and loyal services, and wished him every happiness in his retirement. Mr. Jackson responded in a reminiscent vein, and stated that he was the oldest employé of the company in South Africa, having arrived in the country in 1878.

Chemists' Employes' Association.—At a large and representative meeting of chemists' employés held at the Grand National Hotel, Johannesburg, on Wednesday, July 30, it was decided to form a South African Society of Chemists' Employés. Briefly, the objects of the Society are as follows: (1) To unite chemists' employés into one organised body. (2) To raise a general fund by subscription for the purpose of promoting the interests of members. (3) To elevate the status of the craft. (4) To discuss matters of vital interest, such as limitation of working hours, standard rates of pay, and general improvement of working conditions. (5) To promote an amicable feeling amongst all members of the drug trade, irrespective of their positions, and to arrange social entertainments—in which all can participate—in furtherance of the above-mentioned object. A strong committee was formed, and a president, vice-president, and secretary appointed. Considerable enthusiasm prevailed, as it was unanimously acknowledged that such an association would prove invaluable. Councillor Yow, of Johannesburg, addressed the meeting, and the thanks of all are due to him for assisting to place the Society on a sound foundation. Sixty members were enrolled. It is confidently hoped that chemists' employés in all parts of the Union and Rhodesia will eventually join.

Colonial Pharmacy Board.—Among the matters discussed at the last meeting of the Colonial Pharmacy Board was the reply of the Medical Officer of Health for the Union to the representations made in terms of a previous resolution regarding qualified chemists "covering" companies trading as chemists and druggists. After full discussion and consideration, the President moved the following resolution:

This Board resolves that any registered chemist and druggist who allows his licence to practise as such to be used for the purpose of enabling an unregistered person or persons to carry on the business of a chemist and druggist, or of enabling any company to carry on such a business unless the *bona-fide* managing director and/or general manager of that company is a registered chemist; or who places an unregistered person in charge of his own business, shall render himself liable to the penalties laid down in Section 13 of the Medical and Pharmacy Act Amendment Act of 1899.

Mr. Darroll seconded, and the motion was unanimously carried. It was further resolved that the resolution be embodied in a circular letter to be printed and addressed to every registered chemist and druggist in the Province. A letter was read from the Pharmacy Board of New South Wales proposing that a reciprocal agreement be entered into for the recognition of the examination certificates of the respective Boards for registration purposes. It was resolved to refer the New South Wales Board to the correspondence addressed to them on various dates between the years 1908 and 1910, to which no replies have been received, and to state that until some satisfactory explanation is forthcoming as to why these letters were ignored this Board is not prepared to enter into any fresh negotiations on the subject.

French News.

(From the "C. & D." Paris Correspondent.)

The "Pharmaco-Journalistic Romance of Lille" (see *C. & D.*, April 5, 1919, p. 53) is now being told in detail in "La Chronique Pharmaceutique," a French pharmaceutical periodical. An interesting feature is the textual reproduction of the "Oiseau de France" of July 14, 1916. By this little sheet (which bore a forged French aerial service postmark, to make the Germans suppose it had been dropped by French airmen and not printed under their very noses) the inhabitants of the cities under Teuton rule learned of our first "great push" on the Somme and of the fighting at Mametz, Trônes Wood, and other historical spots.

German Business Enterprise is very much in evidence once more. Of nine consecutive advertisements in a leading Parisian daily six are from the Rhine and beyond. A cotton-bleaching firm at Neuss-sur-Rhin seeks work. "K.Z. 1894, c/o Rudolf Mosse, Cologne," wishes to enter into business relations with French, Belgian, or British firms manufacturing or selling alcohol (96 per cent.), mercury, opium, and camphor. A varnish factory in the Rhenish occupied region has similar ambitions. A "German agent" (commercial, of course) seeks clients for commission business. A chemical works (refining oil and manufacturing lacquer) seeks an outlet for its energies and business for its "extensive commercial organisation and numerous agents." Another, established twenty years at Cologne, wishes to represent a foreign starch manufacturer.

The Academy of Sciences announces the award of several botanical prizes. Under the "Montagne" bequest, M. Fernand Moreau receives 1,000fr. for his researches on the reproduction of *Mucorinæ*, and M. Gabriel Arnaud (sub-director of the Paris Station of Vegetable Pathology) 500fr. for his monograph on *Asterinæ*. Professor Auguste Sartory (Nancy School of Pharmacy) receives the Jean Thorel prize of 200fr. for his publications on cryptogams, and Professor Houard (Caen Faculty of Sciences) the 900fr. Coincy prize for his study of the phanerogams. The 500fr. Jean de Rufz de Lavison prize goes to M. Raoul Combes for researches on glucosides. The "Barbier" prize of 2,000fr. is awarded to Professor Goris (Paris School of Pharmacy). One Chaussier prize of 3,000fr. is awarded to Professor Dustin (Brussels), and another of the same value to Dr. A. Grigaut, for his essay on "New chemical methods in pathology and their results." Several military surgeons are rewarded, and two collaborators honourably mentioned for a paper on "Trench feet."

A New Side-line.—One feature of "war time," in Paris at least, was the curious manner in which shops went outside their regular business and indulged in out-of-the-way side-lines. To buy fruit at a baker's, soap at a leatherseller's, etc., was nothing unusual; one boulevard restaurant, I remember, retailed candles by the packet. A Parisian daily hints that we have not yet lost these little peculiarities, and cites from the "Officiel" a statutory notice by which a public service of motor-cars for goods and passengers has been founded between Saint-Genier (Aveyron) and Campagnac Railway Station by M. Emile Combes, pharmacist, M. Crouzet, café proprietor, and M. C. Vincens, ironmonger, all of Saint-Genier. The journalist asks whether, in the Aveyron, the carriers and livery-stable keepers sell ipecacuanha or dispense liquid refreshment, and indulge in mild moralisation as to the cobbler sticking to his last. As a simple matter of fact, the pharmacist in a little French village like Saint-Genier is usually one of the leading local men, both intellectually and financially; and certainly any effort to improve public transport in France at present is both intelligent and praiseworthy by whoever it may be planned and carried out.

The House Committee of Montrose Royal Infirmary have agreed to spend 500*l.* on *x*-ray apparatus.

Colonial and Foreign News.

Pharmacy in Hungary.—The nationalisation of pharmacies, introduced and enforced in Hungary under the *régime* of Bela Kun, has been rescinded by the new Government (*C. & D.*, August 30, p. 45).

M. T. Weil, the former editor of the Warsaw "Wiadomosci Farmaceutyczych," the journal of the Polish pharmacists, which has recently resumed publication, has assumed an important position in the newly formed section of pharmacy in the Polish Ministry of Public Health, and is succeeded by M. C. Wenda.

German Monopolies.—The Bill empowering local authorities to take over and run institutions of local importance or of general use to the inhabitants has now appeared, and, to the great relief of the pharmaceutical profession, pharmacies are not enumerated, so that for the present this "greatest danger to the profession" has been avoided.

Pharmacy Concession.—In granting a concession to open a new pharmacy, the Saxon Government now inserts a stipulation to the effect that "the Government reserves to itself the right to cancel the concession should the nationalisation or communalisation of pharmacies be introduced. In this case the indemnity to be paid will be established by law."

Quinine Supplies for Kediri.—In consequence of complaints of a dearth of quinine for the treatment of a new disease which has appeared in Kediri, the director of the Board of Health telegraphed to the Bandoeng Quinine Factory on June 14 for the immediate supply of 100,000 tablets of quinine, and on June 15 telegraphed another order for 200,000 tablets.

Price-fixing in Holland.—The Commission formed by the Dutch pharmaceutical and druggists' organisations draws attention to the fact that wholesalers are in the habit of stating in their price-lists the sale price to the public of specialities and packed goods. As these prices often differ from those agreed upon by the Commission, retailers are asked to abide by the fixed prices.

United States Tariff Bill.—A Bill was introduced into the House of Representatives on July 24 providing for increased import duties on laboratory glass-ware, laboratory porcelain-ware, optical glass, scientific and surgical instruments, the increases ranging from 10 to 45 per cent. Hitherto optical glass has been duty free, but a duty of 45 per cent. *ad valorem* is now proposed.

Spurious Drugs in Austria.—The scarcity of drugs in Austria has led to a very brisk illicit trade in medicaments, many of which are of very doubtful origin, although professedly "smuggled in from abroad." The latest discovery is that tubes purporting to contain salvarsan are being offered, which on analysis were found to contain a yellow powder consisting of a mixture of lead chromate, calcium sulphate, and barium sulphate.

Indigo Trade between Madras and China and Japan.—The exportation of indigo to China and Japan having been resumed, the price in Madras has increased since January. A Government crop report estimates that 114,650 acres are now planted with indigo, compared with only 27,500 acres at the same period of the past year. The bad monsoon of last year hindered sowing, with the exception of Cuddapah, where the monsoon was better. The general reduction in cultivation during 1918 is chiefly ascribed to the listlessness of the market in 1917, and the consequent difficulty in getting rid of old stocks in hand.

Standardisation of Laboratory Ware.—The differences in sizes, etc., in laboratory apparatus placed on the market by various manufacturers has induced the German Chemical Society to appoint a Commission whose duty it will be to elaborate the bases for a standardisation of all laboratory apparatus. The Commission has formed eight sub-sections, each dealing with a special class of apparatus—viz., factory-made glass, lamp-blown glass, instruments for measuring, thermometers, porcelain and fire-clay apparatus, Bunsen burners, heating apparatus and simple metal apparatus, precision apparatus made of metal, and optical instruments.

Prospects in Greece.—The prospects of having Greece as a large market for French chemicals are considered to be particularly bright, according to "L'Exportateur Français." Some of the chemicals required for the dyeing industry are sodium nitrite; sulphuric acid and castor oil ("sulphated oil" used in the manufacture of Turkey red); potassium bichromate; aniline and its salts; iron sulphide and sulphates. There is a demand also for diamines and sulphur black. It is pointed out that, before the war, the Germans monopolised this market, and now the country is ripe for the activities of French manufacturers. Greece can no longer be described as poor; on the contrary, statistics would show that at the moment, in comparison to its population, it is one of the richest countries in the world. Among the champions of a Franco-Greek *rapprochement* is M. Spyriadis, Minister of Trade.

The First Greek Pharmacopœia appeared in 1837, and a reprint of the first edition was published in 1869, since when no new edition has been issued. In 1899 Professor Dambergis, of the University of Athens, to whom Greek pharmacy owes a very great debt, published a pharmaceutical manual which found an extensive use not only in Greece, but throughout the Levant. A second edition appeared in 1909, and was reviewed at the time in the *C. & D.* The delay in issuing a new Pharmacopœia is explained by the fact that those responsible for its elaboration expected the compilation of an international standard work. Now that the realisation of this proposal seems more remote than ever, the Greek Home Office has appointed a Commission of twenty-two members to produce a new national Pharmacopœia. The Commission includes ten medical practitioners, nine pharmacists, two chemists, and one veterinary surgeon. In addition, the collaboration of ten Greek scientists has been requested. Up to the present the Commission has investigated 231 chemicals, 141 drugs, 227 galenical preparations, and 10 biological products, with a view of their inclusion in the Pharmacopœia. It is hoped that the work will be introduced as the official standard in March 1921, that date marking the completion of the first century of Greek independence.

Serbian Pharmacy.—The Serbian Government has elaborated a Bill declaring all pharmacies to be public Government undertakings, and placing them under the control of the Minister of Public Health. In future a new pharmacy may only be opened on the advice of the Supreme Board of Health, and will be a charge to the Budget of the Ministry of Health. The owners of existing pharmacies will be permitted to continue their business, provided they comply with the new regulations. If they do not wish to do so, their pharmacy may be purchased by the State. On the death of the present holder the pharmacy will be taken over by the State, which will pay an indemnity to the late owner's heirs. The amount to be paid by the State on taking over a pharmacy from a private owner will be based on the actual value of the house and stock, and the goodwill will also be taken into consideration. The Board appointed to fix the amount of the indemnity to be paid will consist of the Director of the Central Depôt for Medicaments, the President of the Serbian Pharmaceutical Society, and a pharmacist chosen by the latter, while the Chairman of the Board will be an official of the Ministry of Health. The decision of this Board will be binding on all parties, and cannot be appealed against. For the first year a sum of 500,000 dinars has been set aside in the Budget for the purpose of purchasing existing pharmacies. The annual profits realised by the State pharmacies will be added to this fund for the purpose of extending the nationalisation of pharmacies. Each pharmacy will be in charge of a responsible qualified pharmacist as manager, in addition to the necessary number of qualified assistants and other *personnel*. These will be appointed by the Minister of Health, on the advice of the Central Depôt for Medicaments. The Bill will also include regulations dealing with bookkeeping, the sale of specialities and packed goods, toilet and technical products, poisons, as well as the division of work and hours of work in pharmacies; questions which are at present being made the subject of special consideration and discussion by the interested parties prior to their inclusion in the Bill.

Legal Report.

Medicine-stamp Act.—At the Mansion House Police Court, London, on September 5, Mr. George Winfield Green, trading as Brewer & Marston, chemists, Copthall Avenue, City, attended before Sir John Knill, upon four summonses at the instance of the Inland Revenue, charging him with selling and with exposing for sale "Brewers & Marston's pile ointment," "Dr. Dusart's cure of chilblains," "chilblain liniment," and "Thompson's Thermodyne embrocation," medicaments liable to duty, without the stamps required by the Medicine-stamp Act. Mr. R. J. Beattie appeared in support of the summonses, and called evidence as to purchases made at the defendant's premises by revenue officers on various dates of the articles in question, and to the fact that none of the bottles was stamped in accordance with the requirements of the Medicine-stamp Act. Mr. W. T. Charles, on behalf of the defendant, who pleaded "not guilty" to each of the summonses, submitted that the prosecution must fail. Though the sale of the preparations was admitted, he submitted that, with regard to some of them, no proprietary rights existed, and that with regard to the remainder they were compounded of elements in accordance with the British Pharmacopœia, and were not liable to duty. If, however, the Court was against him upon these points, then he submitted that the defendant had acted innocently. Mr. Beattie pointed out that, as the preparations were recommended as cures, they were not within the exemptions. Sir John Knill was of opinion that the defence had failed. He imposed a fine of 40*s.* on each of the four summonses—8*l.* in all. The money was at once paid.

Business Changes.

F. W. Sutcliffe No. 2 Co., Ltd., have, by the disposal of the branch at 60 West Street, Leeds, completed the sale of their shops.

Mr. S. W. Bowness, chemist and druggist, Elswick Road, Newcastle-on-Tyne, has purchased the business of the late Mr. O. R. Bowe, Hawes.

Boots, Ltd., are opening at 106 and 108 Wandsworth Bridge Road, London, S.W. 6, so soon as the necessary alterations to the premises are completed.

Mr. G. Hume, chemist and druggist, has purchased the branch business of Mr. J. Timmis, chemist and druggist, 290 Clapham Road, London, S.W. 9, of which he had been the manager for some years.

Mr. J. Williams, chemist and druggist, Horfield, Bristol, has purchased the business of Mr. F. C. Fawn, chemist and druggist, 348 Gloucester Road, Horfield, and is reopening it so soon as alterations are complete.

Mr. E. Halliday Bedford, chemist and druggist, late of 9 Hyde Park Corner, Leeds, has purchased the business of the late Mr. A. E. Magin, Clwyd Street, Ruthin. Mr. Bedford's connection with the Leeds business ceased from August 1.

Mr. R. F. Edkins, chemist and druggist, late manager to Mr. D. T. Evans, chemist and druggist, at his Ramsgate branch, has acquired the business of Mr. A. E. Mullinger, chemist and druggist, 10 The Vale, Acton, London, W. 3.

Mr. J. Noble (Noble's Drug Stores, Ltd., 2 Well Street, London, E. 1) has purchased the premises lately occupied by Mr. T. A. W. Sewell, chemist and druggist, 30 Lucas Road, S.E. 17, and intends reopening them on the completion of alterations.

Java Cocaine Factory Closed.—Owing to the death of its owner, Heer Ligtvoet, the factory for the extraction of coca alkaloids at Soekaboemi was forced to close owing to the absence of a manager and of working capital. The "Algem. Landbouw-Weekblad v. Nederl. Indie" states that the firm of Geo. Wehry will probably take over this factory, and will also provide the necessary working capital.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Elel, Ltd. (P.C.).—Capital, 2,000*l.* Objects: To take over the business of a manufacturing chemist carried on by H. Yorke, as "H. Yorke & Sons," at 94 East Street, London, S.E. 17.

Pinnington, Wood & Co., Ltd. (P.C.).—Capital, 3,000*l.* Objects: To enter into an agreement with W. A. Pinnington and H. R. Wood, and to manufacture and deal in chemical, pharmaceutical, medicinal, surgical, sanitary, toilet and feeding preparations, etc. R.O.: 196 Deansgate, Manchester.

Lundy Wilson & Co., Ltd. (P.C.).—Capital, 17,000*l.* Objects: To carry on the business of manufacturers and sellers of a specific for the relief of asthma, hay fever, and other complaints known by the trade name of "Lalkala," as formerly carried on by J. B. Palmer as "Lundy Wilson & Co." R.O.: 110 Canon Street, London, E.C.

J. C. Bottomley & Emerson, Ltd. (P.C.)—Capital, 30,000*l.* Objects: To carry on business as manufacturers of chemicals, coal-tar dyestuffs, intermediates and products, tar distillers, manufacturers of and dealers in paints, distempers, etc., also manufacturing and general chemists and druggists, drysalters, etc. R.O.: Brookfoot Works, Brighouse.

Pendleton Oil and Chemical Co., Ltd. (P.C.).—Capital, 3,000*l.* Objects: To carry on the business of chemical manufacturers, oil extractors, refiners and blenders, chemists, druggists, drysalters, soap boilers, candle makers, etc. R.O.: 5 Lower Gold Street, Pendleton, Salford.

Selby Chemical Co., Ltd. (P.C.).—Capital, 55,000*l.* Objects: To carry on the business of chemical, colour, and dye manufacturers, importers, exporters, buyers and sellers of heavy and fine chemicals, perfumes, pharmaceutical, photographic and other preparations, acids, essential oils and chemicals, drysalters, etc. R.O.: Holme Works, Holme Lane, Selby.

Pye & White, Ltd. (P.C.). Capital, 3,000*l.* Objects: To carry on the business of cattle-medicine specialists, manufacturers and factors of, and dealers in, drugs, chemicals, cattle foods and medicines, etc. The first directors are: H. Pye, 18 Bridge Street, Spalding, pharmacist; and R. C. King, 186 Winsoven Road, Spalding, cattle-medicine manufacturer.

Southdown Chemical Co., Ltd. (P.C.).—Capital, 60,000*l.* Objects: To take over the business of chemical manufacturers, makers of dyes, intermediates, drugs, lubricants, and other substances, etc., carried on by R. M. Downie and J. E. Southcombe, as the "Southdown Chemical Co.," at Beaufort Road, Birkenhead; also the business of shippers, importers, exporters, etc. R.O.: Beaufort Road, Birkenhead.

F. T. Munton, Ltd. (P.C.).—Capital, 2,000*l.* Objects: To take over the business of a drug-store carried on by F. T. Munton at 59 High Street, Winsford, Cheshire, as "F. T. Munton, Ltd.," and to carry on the business of pharmaceutical, analytical, manufacturing, or consulting chemists and druggists, chemists' and druggists' sundriesmen, drysalters, oil and colour men, etc. The directors are: F. T. Munton, Rosslyn, Winsford, Cheshire, analytical chemist; Constance M. Munton; and T. Luke, qualified chemist. R.O.: 59 High Street, Winsford.

Price's Patent Candle Co., Ltd.—A circular has been issued to the shareholders stating that "Negotiations are in progress and a provisional contract has been signed in connection with an offer for the shares of this company, by which it is believed the present shareholders will materially benefit. So soon as the necessary investigations are completed the directors will make a definite statement."

Confectioners' Exhibition.

The twenty-third international exhibition of the confectioners', bakers', and allied trades opened at the Royal Agricultural Hall, Islington, London, N., on September 6, and remains open till September 12. It may be remembered that in 1915 the grocers and provision dealers joined forces with the confectioners as exhibitors, owing to war conditions, and that since then the exhibition has been in abeyance. A visit to this year's "market" (to borrow a title from the catalogue) shows that, if the number of exhibits is slightly less than that of pre-war days, quality has in no way suffered, and the goods are as temptingly arranged as ever. We have selected for comment goods that are of interest to the drug-trade.

Fruit Essences, Flavourings, and Chemicals.

Well placed, the stand of the London Essence Co., Ltd., was one of the first to attract our attention. Mr. H. A. White was in charge, and he was in a strong position, as lawyers say, being assisted by four of the company's representatives, Messrs. Flint, Bradfield, Perry, and Figgins. In addition to fruit essences, there is a handsome selection of perfumes on show, as well as a special line in oil of peppermint and a series of drop perfumes ("Illusions"), prompt delivery of which is ensured. The Manchester Chemical Co., Ltd., make a speciality of flavourings in paste and powder, coloured and blended to taste, and also show acid phosphate of guaranteed purity. The stand of H. Thompson & Co.'s Idolice Specialities, Ltd., will probably attract as many visitors as any, not so much, perhaps, by its imposing size and design as by its specimens of confectionery. These preposterously clever imitations of almost everything animal, vegetable, and mineral probably represent the last word in the fancy baker's art, and, to one not a confectioner, look too artistic to be eaten. The humble but necessary essences flanking the display are quite remarkable for variety and concentration. Walter Hepworth & Co. show a series of products with easily memorised names derived from that of the firm. These include, in addition to essences, liquid whole egg, milk powder, and cream-of-tartar substitute. Essences are also a leading feature of the displays of the following: The Home Yeast Co., Ltd., G. T. Huband & Co., W. Aylward Crump & Co., the Fermentine Co., Joyce & Co., and the United Yeast Co., Ltd. Standing in a class by itself, although conveniently grouped with other chemicals, is Milton, effectively displayed at the stand of the Milton Manufacturing Co., Ltd. It appears that the Agricultural Hall has been "Miltonised" daily during the period of the exhibition, and, judging by the freedom of the atmosphere from stuffiness, with excellent results. A small vaporiser which was shown us represents the acme of portability and convenience for its purpose, and, although consisting partly of metal, is warranted immune from corrosion. Alexander Cross & Sons, Ltd., make a feature of "Scotia" cream powder, which, they claim, is equal to the purest cream of tartar, and is guaranteed to contain not more than 2 per cent. (a fifth of the L.G.B. maximum) of calcium sulphate. Other exhibitors showing cream of tartar or its substitutes, or both, are the Frankland Manufacturing Co., British Wheat Salts Co., Ltd., and the Antelope Cream Powder Co.

Fittings, Machinery, and Adjuncts.

One of the most impressive displays of any class is that of W. M. Still & Sons, Ltd., which represents the application of a maximum of ingenuity to everyday problems. There is, for instance, an automatic apparatus for delivering boiling water; there are stills of many capacities, from half a gallon upwards; and there are stoves of special design, not to mention such common things as bronchitis kettles. The company has supplied the Red Cross organisations largely of late. Another "live" show is that of the adding and calculating machines of Burroughs Adding Machine, Ltd. These, it is interesting to learn, are steadily making their way in quarters hitherto regarded as ultra-conservative. A demonstration of addition, multiplication, and ledger-posting left us marvelling how metal and indiarubber could be made (apparently) to think; and the saving of time and labour brought about is too obvious to need emphasising. Of considerable interest to pharmacists who have to advise on plant-spraying is the exhibit of the Four Oaks Spraying Machine Co., who also supply apparatus suitable for use on horses affected with parasitic mange. The aerated-water machines and soda fountains of Flugel & Co., Ltd., are well worth a visit, as also are the latest things in show-cases at the stands of Harris & Sheldon, Ltd., and the Imperial Shopfitting Co. There is a large variety of machinery suitable for grinding, mixing, filling, wrapping, and other large-scale pharmaceutical operations, and prospective buyers can make an excellent choice from among the stands of the Foxgrove Machinery Co., Ltd., Mr. C. Duckworth, Young's Patent Hygienic Bin Co., Joseph Baker & Sons, Ltd. (and Perkins Engineers, Ltd.), John B. Daniels, Ltd., and C. Hawkins & Co. The Automatic Scale Co., Ltd., are showing a price-computing counter scale, ingeniously contrived, with agate bearings and an oil immersion, so as to secure sensitiveness; and W. & T. Avery, Ltd., have a comprehensive display, including a well-finished scale with indicator. Ample provision for the requirements of outdoor delivery is to be found at the stands of Mr. H. C. Slingsby and of Venesta, Ltd.

Foods, etc.

Pharmacists, wholesale and retail, are interested in the egg industry; and there is ample choice in egg-substance, both liquid and dried, at various stands. It will suffice to mention in this connection the names of the Stag Manufacturing Co., Bigland, Sons & Jeffreys, Ltd., Robert Roxburgh, Ltd., John Layton & Co., Ltd., Jones, London & Garrard, T. Lucas & Co., and Egg Products, Ltd. The products of the Natural Food Co., Ltd., and of Montgomerie & Co., Ltd., are of interest as disclosing the way in which science is pressed into the service of bread making; and, at the stand of the latter, malt extract is also displayed. Chemists who cultivate pleasing side-lines will be attracted to the stalls of the Watford Manufacturing Co., Ltd. (makers of Havinden's chocolates), and John Mackintosh, Ltd.; and those who visit the artistic stand of Horlick's Malted Milk Co.—"large and white and clean," as William Morris might have said—will find an ample supply of non-excisable liquor.

Miscellaneous.

Modernity of the best type characterises the neat and effective stand of the Tele-Dis Services (Founders Co.), Ltd., which has a series of photographs and so forth demonstrating the collection of germs on the mouthpieces of telephones, and their suppression by the weekly sterilisation carried out by this company. Another simple, yet striking, exhibit is the series of letter-signs of T. N. Evans & Co., Ltd., even spacing being ensured by an ingenious contrivance. Products of a different type may find inquirers at the stands of Calders Yeast Co., Ltd. (arachis oil) and the Southern Cotton Oil Co. ("hogless lard"); these have their obvious uses in present conditions. Sauces in distinctive bottles are a feature of the exhibit of Joseph Meredith & Co., Ltd.; and familiar side-lines are in evidence at the stall of Adams & Beemans, Ltd., in the shape of Sen-Sen cachous and chewing-gum. Paper-makers, container manufacturers, and sealing-machine manufacturers are strongly represented by James Spicer & Sons, Ltd., James Hunt, Ltd., G. Church & Co., Ltd., and John Gosheron & Co. British gelatin of fine quality is the speciality of Oury, Millar & Co., who display it in several forms. A new marking-ink, which has been severely tested, is on view at the stand of Heller & Sons, who also show rubber stamps and stencils; and the Peace Pillow Co. display nail-brushes and their "Esprit de Liége." An extensive range of vermin-killers is shown by the American Cockroach & Blackbeetle Solvent Co., Ready Rat Relief Virus Co., and A. & L. Porter; and the needs of birds are catered for by R. Hyde & Co., Ltd., whose preparations are worth investigation by pharmacists who are likely to be asked to advise on this subject.

Association Affairs.

Coventry.—A meeting of the Coventry Pharmacists' Association was held on August 29. Mr. C. H. Welton (President) occupied the chair. It was decided to become affiliated to the Federation of Local Associations to be formed for the Midland area and to agree to accept the rules for Federations as suggested by the Pharmaceutical Society. The Secretary reported that a conference had been held with reference to public medical service dispensing, when the question of payment for dispensing for the P.M.S. was discussed. It was unanimously decided that the same Sub-Committee should deal with all public medical service matters, and that no chemist should take direct action with the P.M.S. without the approval of the Local Association.

East Anglia Federation.—The quarterly meeting of the East Anglia Federation of Pharmaceutical Associations was held at the Grand Hotel, Peterborough, on September 4, when there was a good attendance of delegates from Cambridge, Ipswich, Norwich, Wisbech, and a strong contingent of the local Association, to welcome Sir William Glyn-Jones and other visitors. The President (Mr. C. Smalley, Ipswich), in opening the proceedings, thanked those members of the Federation who had voted for him at the recent Local Associations Executive election, remarking that if the Federation had pulled its full weight he would have been successful. He then referred to the new inclusive policy of the Chemists' Defence Association, the granting of which was largely due to the perseverance of the Peterborough Association. A letter from the Halifax Association was read, suggesting a boycott of unprofitable proprietaries; but the meeting decided this was impracticable unless they had also the support of the company shops and co-operative societies. Sir William Glyn-Jones then addressed the meeting. He referred to the position of chemists in regard to the new Ministry of Health, pointing out the large powers conceded, and that such matters as the training of persons for health services and the prevention of fraud by the sale of so-called remedies for diseases would have a real bearing on chemists' work. It is more than ever necessary that chemists should be represented on public bodies, so that they could make their voices heard on the local advisory councils which would be set up. In the discussion which followed, the President inquired as to the distribution of proprietary foods under the usual retail prices, which was a sore point with many chemists. Sir William replied that his view was that the distribution should be free but not of branded goods, and that if this course were adopted no objection could be taken. The draft constitution and rules of Pharmaceutical Federations, as formulated by the L.A.E. Committee, were then considered, and, in the main, agreed to. Mr. H. S. Blake (Huddersfield) then read a paper on *The Diminishing Profit on Proprietary Articles*, pointing out the great advance in all overhead charges and all chemists' expenses, so that many articles were sold practically at a loss. The Appointments Department, Ministry of Labour, was then discussed, and some unfavourable criticisms were made; but Sir William Glyn-Jones stated that he did not think our profession as a whole has any reason for complaint. Alderman A. S. Campkin (Cambridge) stated that he had had not far short of 100 cases under consideration, and such delays as there had been were inseparable from Government machinery. Votes of thanks concluded a very successful meeting.

Kent.—A meeting of the Committee of the County of Kent Association of Pharmacists was held at 17 Bloomsbury Square, London, W.C., on September 3. The meeting was called principally to consider the Pharmaceutical Society's circular (P.S. 67) on Federation. After discussion, it was resolved to ask the Local Associations Executive for further information on the scheme, and in the meanwhile to assure them that the Kent Association wishes to work with them in the matter. The patent-medicine stamp revision and a circular letter from the Halifax Association also received attention.

Summer Outings.

In Savernake Forest.

The Bath Pharmaceutical Association had their Peace Celebration on September 4, when about twenty-eight members had a tour in a Bristol Tramways motor char-à-banc to Marlborough and Savernake. At the Forest Hotel, Savernake, the party were entertained to tea by the President (Mr. D. A. Evans) and the Vice-President (Mr. C. Jenkin).

N.A.C.A. Outing.

The first annual meeting of the Birmingham and Midland Branch of the National Association of Chemists' Assistants was held on September 3, when the members went by motor-bus to Warwick, Leamington, and Kenilworth Castle. Tea was taken at Warwick. In spite of the rain, a very enjoyable afternoon was spent, the members expressing their appreciation of the arrangements made for the outing.

Manchester Chemists' Excursion.

A party of twenty-six Manchester chemists and their friends journeyed by motor char-à-banc to Grindleford, in Derbyshire, on September 3. Leaving Manchester soon after 2 P.M., the journey was through Stockport and Whalley Bridge, then on through beautiful country to Buxton. Continuing through hilly country, for which that part of Derbyshire is so famous, the party arrived at the Maynard Arms Hotel, Grindleford, where an excellent repast was ready. After the inner man had been satisfied, the President (Mr. A. Hershberg) referred to

At Grindleford.

the presence of Mr. Lilley and Mr. Dewhurst, of the Manchester Insurance Committee, also Mr. Haworth, who were cordially welcomed. After a group photograph had been taken on the lawn, games of bowls and croquet were indulged in and enjoyed until a shower of rain came. The return journey was commenced about 7.45, and the party reached Manchester soon after 10.30. The arrangements were in the hands of Messrs. J. Beal and J. Cleworth.

Wartime Cadets.—The pharmacy students of the French Military Sanitary Service who should have entered the School of Application in 1915, 1916, and 1917 will be definitively named second-class assistant-majors so soon as they take their pharmacy diploma. Whatever their date of nomination to this grade, the 1915 students will be ranked as if gazetted on December 31, 1915; the 1916 and 1917 men as from December 31 of the years in question; and all will temporarily take precedence of rank in the order in which they obtain their diplomas.

Births.

CRUICKSHANK.—At 4 High Street, Turriff, on September 2, the wife of G. M. Cruickshank, chemist and druggist, of a daughter.

CURTIS.—At 23 Northwood Road, Highgate, London, N., on September 5, the wife of W. H. Curtis, chemist and druggist, of a son.

EVANS.—At Club House, Bidston Hill, Birkenhead, on September 6, the wife of William P. Evans, chairman of Evans Sons Lescher & Webb, Ltd., of a son.

Marriages.

AFFLECK—PARKES.—At St. Michael's Church, Chester, on September 4, by the Rev. W. Tweedie, vicar, assisted by the Precentor of Chester Cathedral, Claude W. Affleck, chemist and druggist, Sheffield, to Ethel N. Parkes, Chester.

FLEMMING—HEPPLEWHITE.—At St. Andrew's Church, Corbridge-on-Tyne, on September 2, by the Rev. C. H. Blackburn, T. H. Flemming, Ph.C., Newcastle-on-Tyne, to Edith L. Hepplewhite, Corbridge.

GRAY—HUNTER.—At Dunipace United Free Church, on September 3, John William Gray, chemist and druggist, Denny, to Jessie Colville, youngest daughter of ex-Provost W. W. Hunter.

MAY—COBB.—At St. Mary's Church, Halifax, on September 4, by the Rev. A. C. Hill, Archibald Gordon May, younger son of Mr. J. C. May, Sittingbourne, to Gladys, fourth daughter of Mr. G. M. Cobb, chemist and druggist, 64 Northgate, Halifax.

Deaths.

JOHNSON.—At St. Bartholomew's Hospital, London, E.C., on September 3, following an operation, Mr. Frederick Jabez Johnson, aged 56. Mr. Johnson was a well-known and respected representative of Lysol, Ltd., Stratford, E. 15.

LEWIS.—At 160 Fordwych Road, London, N.W. 2, on August 23, Mr. Charles Sinclair Lewis, founder and proprietor of the Anzora Perfumery Co., 32-34 Willesden Lane, London, N.W. 6, aged forty-nine. Mr. Lewis was taken ill in July with an attack of pleuro-pneumonia which affected his heart, and he failed to rally. In the course of a successful career he made many friends, and he was greatly esteemed by all with whom he came in contact. The interment took place, after cremation, at Hampstead Cemetery, N.W.

MR. C. E. LEWIS.

Died on Service.

DOIG.—Corporal William Doig, King's (Liverpool Regiment), previously reported missing (*C. & D.*, 1918, p. 382), is now officially presumed to have been killed on or about March 22, 1918, aged twenty-one. Corporal Doig was the elder son of Mr. John L. Doig, chemist and druggist, Marrbank, Newport-on-Tay (William Doig & Sons, 9 High Street, Dundee). He enlisted in December 1915.

RANSOM.—At the 24th General Hospital, Etaples, France, on September 4, of pneumonia and heart failure, Captain John Ransom, M.C., the Royal Berkshire Regt., eldest son of Mr. Francis Ransom (William Ransom & Son, Ltd., manufacturing chemists, Hitchin, Herts), aged twenty-seven.

Personalities.

ALDERMAN W. R. SELLECK, Ph.C., High Street, Stourbridge, has been nominated for election as mayor of the borough.

MR. W. G. ROBERTS, chemist and druggist, Llanfairfechan, has been placed on the Commission of the Peace for the county of Carnarvon.

MR. W. E. CLARKE, Ph.C., Strood, recently found in a shell on the strand at All Hallows, Rochester, four small pearls, two of which were black.

MISS DOROTHY M. CRITCHLEY, only daughter of Mr. C. A. Critchley, Ph.C., Blackburn, has passed the Senior Oxford Local examination with honours.

MR. P. F. ROWSELL, chemist and druggist, Vice-President of the Pharmaceutical Society and Chairman of the Chemists' Defence Association, has been re-elected to the chairmanship of the County of Devon Insurance Committee.

MR. T. H. W. IDRIS, chemist and druggist, chairman of Idris & Co., Ltd., Pratt Street, London, N.W., was among the guests present at the annual conversazione of the Honourable Society of the Cymmrodorion, held on September 5 at the Hampstead residence of Lord Leverhulme.

MR. JAMES G. MCMILLAN, managing director of A. Wander, Ltd., sailed on September 5, per the s.s. *Cretic*, for New York. His address will be the Wander Company, 37 South Wabash Avenue, Chicago, Ill. The management of the British company will be carried on by Mr. Harry Hague, who has been a director since 1914 and joint managing director since 1918.

SIR RICHARD GLAZEBROOK, C.B., F.R.S., who, as already announced (*C. & D.*, September 6, p. 52), retires from the post of Director of the National Physical Laboratory on September 18, has occupied that position for the past twenty years. He had previously had a distinguished career as Assistant-Director of the Cavendish Laboratory, Cambridge, and is well known by his text-books on physical optics, electricity, and other science subjects. He was one of the experts who were consulted by the Spectacle Makers' Company when drawing up its examination syllabus.

Wills.

MR. ROBERT THOMAS BRAMMALL, chemist and druggist, Oak Cottage, Plumpton Lane, S. Plumpton, who died on May 20, left estate valued at 3,275*l.* 2*s.* 2*d.* gross, with net personalty 729*l.* 13*s.* 11*d.*

SIR WILLIAM JAMES BAXTER, D.L., J.P., Ph.C., Avendale, Coleraine, Co. Londonderry, who died on December 19, left personal estate in the United Kingdom valued at 19,839*l.* 3*s.* 2*d.* Probate of his will has been granted to his widow, Dame Mary Baxter, to whom he left all of his property "for use at her discretion for the service of God, her own use and that of our children."

SUGAR FOR BEES.—The Board of Agriculture has made arrangements with the Sugar Controller that *bona-fide* bee-keepers shall be supplied with 10 lb. of sugar per hive for feeding purposes. For some years the Government has supplied ready-made bee candy; but a number of bee-keepers have expressed a desire to have sugar instead, and to make it up for feeding according to their own recipe, and the Government has decided to issue the whole of the bee-keeping ration this year as sugar. Bee-keepers should communicate with their local Association or the Horticultural Commissioner of the county if they are not in possession of a notice concerning the scheme. The season is admitted to be a bad one in some parts of the country, but the bee experts of the Board of Agriculture are not disposed to endorse reports of the imminent starvation of all the bees of the country. They think, however, that in certain districts it will be necessary to start artificial feeding considerably earlier than usual if the bees are to be saved.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Conservation of Cereal Reserves.—Prof. A. Dendy, F.R.S., states ("Nature," 2,577, 1919) that when wheat is sealed up in a normal atmosphere carbon dioxide accumulates naturally owing to the so-called respiration of the grain. At ordinary temperature (July to October) in three months 300 grams of English wheat, having a natural moisture content of 15.9 per cent., gave off 58.6 milligrams of carbon dioxide, sufficient to raise the percentage of that gas in the air of the receptacle (which was nearly filled with wheat) to 18.13. If insects also be present the carbon dioxide accumulates more rapidly owing to the large amount which they themselves give off. Therefore, in hermetically sealed granaries completely filled with grain there should be no need for any artificial addition of carbon dioxide, which has been recommended, and indeed made, for the purpose of destroying weevils. Under proper conditions, which ought to be experimentally determined, the grain must become self-protective as regards weevilling, mildew, and heating, to say nothing of rats and mice. By the construction of air-tight granaries in the large wheat-growing countries the grain might be completely sterilised as regards insect life by storing for a suitable period before shipment, and the very serious weevilling which often takes place on board ship might be prevented.

A New Leptospermum.—An interesting paper was read before the Royal Society of New South Wales at a recent meeting by Challinor, Cheel, and Penford on a new species of *Leptospermum*, closely allied to *L. flavescens*, var. *grandiflorum*, but differing from the latter by its more obtuse leaves, which have a distinctly fragrant citron-like odour, and the smaller flowers. It is found at Conmanhurst (N.S.W.) and at Springbrook, Macpherson Range (Queensland), and was first discovered by the Rev. H. M. R. Rupp in 1911. The essential oil distilled from 686 lb. of leaves and terminal branches was investigated by the authors. The yield amounted to 1.73-1.85 per cent. The crude oil is of a pale amber colour, sp. gr. 0.8841, optical rotation α_D^t +3.6 at 18° C., refractive index N_D 20° C. 1.4730; it contained 90 per cent. of aldehydes and was soluble in 2 volumes of 70-per-cent. alcohol. The oil possesses a strong, pleasant, modified lemon odour, and the investigation carried out in the research laboratory of Gillard Gordon, Ltd., Sydney, proved that it contained 90 per cent. of citronellal and citral in nearly equal proportions, and in this respect appears to occupy a position intermediate between the oils obtained from *Eucalyptus Citriodorea* and *Backhousea Citriodorea*, both of which give the highest recorded yields of the respective aldehydes citronellal and citral. The non-aldehyde portion of the oil is still under investigation by the authors, but appears to contain a small amount of phenol and also a small amount of an alcohol, apparently resembling geraniol or citronellol, while there is evidence of the presence of a small amount of aromadendrene.

Organic Synthesis.—Further results concerning the biochemical synthesis of sugars and glucosides, the fruits of recent investigations, were communicated by Professor Bourquelot, in collaboration with M. Bridel, to the Pharmaceutical Society of Paris ("Journ. de Pharm. et de Chim.," Nos. 5 and 6, 1919). By the interaction of emulsin (obtained from almonds) on a very concentrated solution of glucose in glycol, they obtained two different glucosides: $C_6H_{11}O_5.O.CH_2-CH_2OH$ and $C_6H_{11}O_5.O.CH2-CH_2O.C_6H_{11}O_5$, the latter, a diglucoside, not having been prepared before. In addition, gentiobiose was also formed. The author concludes that the various ferments of emulsin exert simultaneously their specific synthetisising action. In a second communication the authors dealt with the biochemical synthesis of the glucoside β of α-naphtylic alcohol. A solution in acetone of glucose and α-naphtylic alcohol was prepared, to which emulsin was added. At the time when the experiment was undertaken the foregoing solution had a rotation of +52, at the end of twenty-two days the rotation was +26, and after forty-three days it showed +18. The well-corked bottle was left on one side for five years, when the rotation of the solution was found to be −40; from being dextrogyrate it had become lævogyrate. The acetone was removed by distillation, and the residue extracted with hot water, the glucose was destroyed by fermentation, whereupon the glucoside crystallised in long, colourless, bitter-tasting needles. Its rotatory power is α_D −71°.02; it is hydrolysed by emulsin. These results are a further contribution to the researches undertaken by Professor Bourquelot some years before the war on the synthesis of sugars.

The Quinine Trade in China.

THE Dutch Consul at Shanghai has written a lengthy report in "Handelsberichten" dealing with the quinine trade in China during the war, in the course of which he states that Germany had by far the greater part of the trade prior to 1914, only relatively small quantities being imported from Java, the United States, and Great Britain. German quinine products found their way into the interior of China in their original packages, as the Chinese wholesale dealers did not take the trouble to remove the labels or re-pack. At the outbreak of war the stocks of German quinine products were large, but as all imports were cut off prices of sulphate soon advanced from 30 to 60 Shanghai taels per 100 oz., and later from 75 to 80 taels. Further advances in the prices were expected, and this led to a large speculation among Chinese dealers. Wholesale Chinese druggists, with branch establishments throughout the interior were obliged to buy from other factories in consequence of the enormous demand, and the greater part of the business went to the Bandoeng quinine-factory, which was able to deliver quickly and at a lower freight than from British or American sources. In the course of 1916 the demand for quinine and quinine tablets was very large. About 20 per cent. of the imports were re-exported to Russia by Russian dealers. The Bandoeng factory also sent large quantities to Russia *via* Shanghai and Vladivostock during 1915 and 1916, when imports from the U.S.A. and Europe had come to a standstill. By the beginning of 1916 the price had advanced to 125 to 150 taels per 100 oz., this being partly due to the drop of about 25 per cent. in the currency. The importation of quinine products into China during 1916 largely exceeded that of 1915. Chinese wholesale dealers who usually ordered 1,000 oz. now ordered 10,000 oz. and more, as they expected a regular quinine trade with Russia. In this expectation they were disappointed, however, as the Russian dealers soon discovered that they could buy at lower prices in Japan; they also purchased large quantities from the Bandoeng factory. Moreover, the demand for quinine in Russia diminished, and came to a full stop in the summer of 1916, as peace was expected in Russia at the end of that year. The Chinese wholesale dealers had ordered much more quinine than they required for the Chinese market, and the prices decreased considerably during the last months of 1916, a loss of from 30 to 40 per cent. being made. Moreover, the chaotic conditions in China made it impossible to send products into the interior during the greater part of 1916 and the beginning of 1917, so that large stocks of quinine remained unsold in Shanghai in the autumn. During those two years there was a large demand for cinchonine, especially the muriate, which was about 50 per cent. cheaper than quinine sulphate. The Bandoeng factory had never had much demand for this product, and consequently it had never applied itself to the manufacture. It appears, however, to have very quickly met the enormous demand, as from 30,000 to 60,000 oz. was shipped to China at a time. The quantity which was shipped from Bandoeng to China in the course of from nine to twelve months was from 200,000 oz. to 300,000 oz. The Chinese mixed the muriate with quinine sulphate, and sent out the mixture to the interior as if it were pure quinine, packed in 1-oz. bottles. Sometimes these bottles only contained cinchonine muriate. For this reason the Chinese dealers wanted a cinchonine product quite resembling the bulkier quinine sulphate. It is rather difficult to say whether the European factories suffered from these practices, as the Chinese dealers were prudent enough to use their own labels and stamps. During the summer of 1917 there was still a good demand for quinine sulphate and hydrochloride. As the use of opium was prohibited to the Chinese, native pharmacists brought into commerce, under the name of "quinine-pills," pills containing a small quantity of opium mixed with quinine. According to reports, a large quantity of these pills was sent to the interior before the Chinese Excise authorities discovered it, and afterwards considerable quantities were burnt. At present the demand for quinine sulphate has come to a complete standstill. The old stocks are by no means exhausted, as is shown by the fact that local dealers quote 90 taels per 100 oz. Quinine tablets were still in active demand during the first six months of 1918; at least five millions of 2-gr. tablets have been imported into Shanghai. The Bandoeng factory is giving its special attention to the manufacture of tablets, which in China are superseding the sulphate powder. Exact figures as to the importation of quinine into China cannot be given, as all quinine products are included under the heading of "Chemicals" in the statistics of the Chinese Maritime Customs.

Reviews of Books.

Agenda du Chimiste-Parfumeur, by R. M. GATTEFOSSÉ. 8½ × 5½ in. Pp. 312. 7fr. 50c. (Editions Scientifiques Françaises, 19 Rue Camille, Lyons.)

France has justly been proud of her fine perfumes, which constitute one of her most important industries *de luxe*, and this compendium, which deals exhaustively with perfumes and their various uses, written by an expert, will prove a valuable work of reference. The author warns his readers against attempting to imitate the expensive perfumes of well-known firms, attempts which are bound to be merely incomplete imitations. He urges that the perfumer should be an artist, otherwise he is merely an artisan. The first chapters are devoted to a description of the chemical and physical properties of the essential oils used in perfumery, interspersed with practical notes regarding their adoption for certain purposes; for imparting a rose perfume to ordinary soaps geraniol, obtained from Ceylon citronella, will give good results, while geraniol from Java citronella has a finer odour, surpassed, however, by geraniol obtained from ginger grass, palmarosa, or geranium, the last-named being used for artificial rose perfume for extracts. Attention is drawn to the advantages presented by the use of deterpened oils, the quality of which is not liable to deterioration, and a table gives the relative concentration of deterpened oils to the respective natural oils. Synthetic perfumes are next discussed; we read that at the outbreak of the war about thirty firms in France were engaged in their manufacture, while three produced exclusively artificial musk. The war has led to an extension of many of these plants, which holds out a promise that France will be able to supplant Germany in the manufacture of several products of which the latter had practically a monopoly, particularly as the Chemical Institute of Lyons has added a special perfumery class to the courses of study with a view to foster this industry. A new synthetic perfume of great promise is églantiane 100 per cent. The preparation of various toilet articles is exhaustively dealt with, not only by the inclusion of a wealth of formulas, but by numerous practical hints, and covers every line, smelling salts not being overlooked; fumigations and disinfectant vapours, ancient and modern, also have a place. Exporters will find valuable information in the chapter dealing with the liability to the tax on specialities of articles of perfumery sold in France. A special chapter is devoted to the dyeing of hair, a subject which is dealt with scientifically. It is interesting to note that the craze for blonde hair among the Roman women was attributable to the German girls which Cæsar brought to Rome, and Pliny states that the formula in vogue consisted of beech ashes and goat's suet. Numerous tables of solubilities, concentrations, constituents, etc., enhance the practical value of this work, dealing with a French industry exporting to the value of 2,400,000*l.* annually. The chapter on drug perfumes, or perfumes without alcohol, introduced by Germany, deserves special mention, in view of the prospect these hold out for export, particularly to China, Japan, and Central America, where the German products found an immense demand, offering a large margin of profit.

Tables of Refractive Indices. Vol. I.: Essential Oils. Compiled by R. KANTHACK: edited by J. N. GOLDSMITH, Ph.D., M.Sc., F.I.C. 9 × 5½ in. Pp. 148. (London: Adam Hilger, Ltd., 75A Camden Road, N.W. 1.)

Considerable credit is due to Adam Hilger, Ltd., for the successful manner in which they have coped with the difficulties surrounding the manufacture of so highly technical an instrument as the Abbé refractometer, and there is no doubt that the British-made instruments will replace the German apparatus which were formerly solely employed in this country. The work under notice covers 148 pages, half of which are left blank for notes, and has been compiled for Adam Hilger, Ltd., as one of a series, the later volume or volumes of which will presumably deal with other products. The book consists of a lengthy table, which contains the refractive indices of some 500 oils, with references to the original papers in which the figures were published. In the introduction we read as follows:

"The scattered literature of the subject has been carefully sifted by Mr. Kanthack, and, for the first time, a large number of measurements have been compiled, with references to the original papers." This is dated October 1918, and in the list of references acknowledgment is made *inter alia*, to Parry, "Chemistry of the Essential Oils," 2nd edition, 1908.

It is a pity that the third edition, published in May 1918, was not used, as the revised list there given of refractive indices of essential oils is the most recent that has been published. In order to make a comparison, we take a few pages at random.

In the present work p. 49 contains the refractive index of citronella oils, given as follows: Seventeen sets of determinations are given for "commercial" and "pure" oils and for several different varieties of the oil. In Parry we find that the refractive index is quoted twenty-eight times under citronella oil, and these include the refractive indices of numerous fractions and certain adulterants. The oils of *Citrus hystrix* and *Civet* are omitted in Parry; that of *Citrus simensis* is, of course, the same plant as the sweet orange, under which name it is given by Parry; and clove oil is dealt with in almost the same manner in both works. On pp. 53 and 54 oils of cubeb are dealt with, but Dr. Decker's figures for false cubebs are included without any discrimination between the two. On pp. 107 and 108 of Parry, Decker's figures are given in much more detail and correctly discriminated, besides full fractionation figures for the oil. A little more discrimination in the compilation would have been an advantage. For example, on p. 19 the refractive index of ajowan oil is given as 1.4710. It should, we think, be considerably higher than this—up to 1.500. The various data given for "commercial oils" would have been better omitted. For example, under rose oil, copaiba oil, citronella oil, etc., oils classed under this head can never be depended on as pure. The oil of rose d'hai is quoted as having a refractive index 1.46486 (Schimmel & Co.). As a matter of fact, this firm recorded the figures for the samples, of which one had the refractive index 1.46159 at 25°. Under "Larch or Venice Oil of Turpentine" the compiler has quoted 1.4680 to 1.4704, which are correct figures, but immediately following them with the values 1.5186 to 1.5195 and 1.5180 to 1.5210 are given—figures which, we think, were published for the oleo-resin, and not the oil at all. A similar erratic combination follows for "so-called Venice Oil of Turpentine." Turpentine from *Pinus sabiniana* is given a refractive index 1.4903, the correct figure being 1.3903, this oil consisting mainly of the hydrocarbon, heptane. *Pinus ponderosa* is given as pinus *ponderosus* on p. 137. The results on numerous types of oil of hops published by Rabak (Washington, 1914) are not quoted, although they appear to be the standard and latest values we have. Apart from a few cases such as those above quoted, the figures given are the correct refractive indices for the various oils, and in tabular form will be of use in the laboratory.

New Books.

Raxworthy, H. C. *Prescription Pitfalls and How to Avoid Them.* 8 in. × 5¼ in. Pp. 38. 1*s.* 6*d.* ("The Optician," 123, 124, and 125 Fleet Street, London, E.C. 4.) [Optical prescriptions are referred to in the title, the author being Mr. Raxworthy, of the British Ocentric Optical Co., Ltd. It is intended to facilitate the ordering of spectacles and eye-glasses by the retailer, and can be read with advantage by chemist-opticians, who understand the necessity for clearness in ordering spectacle ware.]

The following papers published by the Wellcome Chemical Research Laboratories have been received: "Some Derivatives of Oleanol," by Frank Tutin and William J. S. Naunton, B.Sc.: "Observations on the Constituents of Aloes," by Frank Tutin and William J. S. Naunton, B.Sc.; "Chemical Examination of Sarsaparilla Root," by Frederick B. Power, Ph.D., and Arthur H. Salway, Ph.D., D.Sc.; "The Constituents of *Solanum angustifolium*," by Frank Tutin and Hubert W. B. Clewer; "The Constituents of the Leaves and Stems of *Daviesia latifolia*," by Frederick B. Power, Ph.D., and Arthur H. Salway, Ph.D., D.Sc.; "Dibenzoylglucoxylose," by Frederick B. Power, Ph.D., and Arthur H. Salway, Ph.D., D.Sc.; "The Constituents of *Clematis Vitalba*," by Frank Tutin and Hubert W. B. Clewer; "The Constituents of the Flowers of *Anthemis nobilis*," by Frederick B. Power, Ph.D., and Henry Browning, jun., M.Sc.; "The Constituents of the Flowers of *Matricaria Chamomilla*," by Frederick B. Power, Ph.D., and Henry Browning, jun., M.Sc.; "Chemical Examination of Cotton-root Bark," by Frederick B. Power, Ph.D., and Henry Browning, jun., M.Sc.; "The Constituents of *Gloriosa superba*," by Hubert W. B. Clewer, Stanley Joseph Green, and Frank Tutin; "Derivatives of Glyoxaline-4 (or 5)-Formaldehyde and Glyoxaline-4 (or 5)-Carboxylic Acid," by Frank Lee Pyman; "The Alkaloids of Ipecacuanha, Part II.," by Frank Lee Pyman; "The Alkaloids of Ipecacuanha, Part III.," by Frank Lee Pyman; "Nitro-, Arylazo-, and Amino-Glyoxalines," by Robert George Fargher and Frank Lee Pyman.

Pharmacy in the Dutch Army.

In previous articles on the French, Italian, and Belgian armies (*C. & D.*, June 7, p. 50; June 14, p. 64; August 30, p. 48) the writer has been describing allied forces with which he has had the privilege of fighting; but in preparing this sketch it has been necessary to rely on brief glimpses, of a neutral army, obtained by the merest chances before the war and after the cessation of hostilities. So far back as 1673 there are records of the appointment of surgeons and apothecaries to the army, but it was not till the Netherlands became a part of Napoleon's mighty empire that any real attempt to organise a medical service was made. The French Emperor gave the Dutch Inspector of Medical Services wide powers, and the result was that in 1815 every unit had pack-horses carrying requirements for rendering first-aid to the wounded, and each division had mobile field hospitals. At Waterloo the Dutch had 6,000 beds ready for wounded and a further 2,000 in reserve. In 1822 an Army Medical School was instituted at Utrecht with a pharmacist officer on the staff of lecturers. This school was transferred to Amsterdam in 1868, but was gradually absorbed into the university and ceased to exist some twenty odd years ago. The Army Medical Service in Holland is composed of medical officers, pharmacist officers, and subordinate personnel.

Ranks of Dutch Medical and Pharmacist Officers.

The officers of the Dutch Medical Service have the following cumbersome titles:

Inspecteur van den Geneeskundigen Dienst der Landmacht ranking as Major-General.

Dirigeerund officier van Gezonheid 1te Classe ranking as Colonel.

Dirigeerund officier van Gezonheid 2de Classe ranking as Lieutenant-Colonel.

Dirigeerund officier van Gezonheid 3de Classe ranking as Major.

Officier van Gezonheid 1te Classe ranking as Captain.

Officier van Gezonheid 2de Classe ranking as Lieutenant.

There are only three grades of military pharmacists in Holland:

Dirigeerund Apotheker ranking as Lieutenant-Colonel or Major.

Militair Apotheker 1te Classe ranking as Captain.

Militair Apotheker 2de Classe ranking as Lieutenant.

Pay and Pension.

In the Dutch army there are no invidious distinctions as to pay amongst the various arms of the Service.

Dutch *Officier van Gezondheid* or *Militair Apotheker* draws the pay of his military rank just as if he were a regimental captain. Compared with the rates in our own Army the pay is low, as a *Dirigeerund Apotheker* draws between 350*l.* and 450*l.* per annum, whereas a *Militair Apotheker 2de Classe* gets less than 3*l.* per week on appointment. These rates of pay are now receiving consideration owing to the increased cost of living, but enough has been said to show that our military craftsmen in Holland hold higher rank but do not draw correspondingly high rates of pay compared with dispensers in the British Service. Candidates for commissions as pharmacist officers in Holland must be graduates in pharmacy and must have "starred" or passed with distinction the State examination. There is no competitive examination, but all appointments are made by the Minister of War. On completing ten years' service as a *Militair Apotheker 2de Classe* the pharmacist officer is automatically promoted to the *1te Classe* with the rank of captain. Field rank is given to all pharmacist officers of thirty years' service.

Medical Rank and File.

There are four companies of what are called hospital troops constituting the subordinate ranks of the Dutch Medical Service. These men undergo six weeks' training with infantry before being enrolled in the hospital companies. The assistants to pharmacist officers and all laboratory assistants are drawn from one of these hospital companies. The personnel of the companies is so small that it has to be eked out by the employment of old soldiers in the capacities of cooks, porters, and wardmasters. A sharp line of distinction is drawn between the hospital-orderly class with functions in hospitals, laboratories, and medical stores, and the stretcher-bearer class, which is solely engaged in the transport of wounded and sick. The hospital orderly in Holland is more or less a trained male nurse, or else a pharmacist's assistant or laboratory attendant, whereas the stretcher-bearer is merely an infantry soldier trained in first-aid and stretcher-bearing.

The stretcher-bearers are divided into two classes: *Ziekendragers* and *Hulpziekendragers*. The *Zienkendragers* correspond to the Bearer Division of a British Field Ambulance or the *Groupe des Brancardiers Divisionnaire* of the French. The *Hulpziekendragers* correspond with regimental stretcher-bearers, but, unlike our bearers, they are never employed in combatant work, and therefore wear the Red Cross brassard.

Administration of Hospitals.

As in the French and Italian armies, there are administrative officers in the Dutch hospitals who relieve the medical officer in charge of all non-medical administrative work.

The Dutch medical officers, however, appear to do more military work than their *confrères* in the armies referred to do, but, as in Italy, the military medical men are somewhat hampered by the fact that they all engage in civil practice. Their position is a very good one, and is reflected in the high professional status accorded to their pharmacist *confrères*. Some of the Dutch military medical officers have very high professional attainments and correspondingly large private practices. There are very fine army medical stores at Amsterdam which supply not only the army but the navy with drugs, dressings, druggists' sundries, and surgical instruments. These stores are under the command of a *Dirigeerund Apotheker* assisted by a staff of pharmacist officers, and is a large, well-organised institution. There are branches in the military districts and in Holland, as elsewhere on the Continent, the charge of all medical stores and material is in the hands of pharmacist officers.

The Dutch Colonial Army.

The army of the Netherlands East Indies is organised on lines very similar to those of our Indian army. The Dutch colonial army has a War Office, with regulations and Army Medical Service of its own. Pharmacy is well represented in the colonial army, as there are two *Dirigeerund Apothekers* and three *Militair Apothekers* on the staff of the Medical Inspector-General, with as many pharmacist officers as there are with the home army. Service with the colonial army is well paid and eagerly sought after.

The Red Cross of the Netherlands.

The Red Cross Society of the Netherlands is ahead of some of the other societies across the Channel, as its latest charter expressly lays down that one of its functions is "to render assistance in times of calamity at home and abroad." It is already equipped for the function, similar to that now being taken up by the British Red Cross Society, of rendering assistance in preventing or aiding suffering in peace. The Dutch society employs, or arranges for the employment, of a large number of pharmacists in its hospitals, and is granted facilities by the Government for utilising the services of pharmacists and medical personnel otherwise liable for military service. The Red Cross Society of the Netherlands has an elaborate arrangement for controlling its personnel in war. The Queen appoints a Chief Commissioner who is with the headquarters of the army, and each division has a *Commissaris van het Nederlandsche Roode Kruis bij de divisie* or Red Cross delegate who, under the orders of the A.D.M.S., controls all voluntary-aid personnel with the division.

Field Medical Formations.

The Dutch Medical Service has the same system as most other continental armies, namely, a regimental

medical service more or less distinct from the divisional medical organisation. The divisional medical units with a Dutch division are the bearer company and the field hospital. The pharmacist officer is not on the establishment in the former medical unit as in the French army, but then Holland has not been to war and found the value of a trained pharmacist in a forward formation. In the Dutch army the pharmacist is first found in the *veld hospitaal*, but, from that position backwards, he finds an honoured place not only in the hospitals but on the staff of the well-organised little army of the Netherlands. M.D., L.P.S.I. (19/88.)

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped.

(*From "The Trade Marks Journal," August* 20, 1919.)

"SAN-SAT"; for goods (47). By J. Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E. 1. 389,737. (Associated.)

"NUBRO"; for all goods (47). By W. H. Atkin, 28 Norwich Union Chambers, Congreve Street, Birmingham. 392,790.

"L'OREAL," with circular device of woman dyeing her hair; for hair dyes (48). By E. Schueller, 7bis rue Du Louvre, Paris. 377,876.

"JOLLY" and "JOLLY BOY"; for perfumed toilet soap (48). By the Jolly Boy Co., Ltd., 32A Alma Street, Blackburn. 386,875/6. (Associated.)

"LEE'S DAND. REX" ("Lee's" disclaimed); for a hair preparation (48). By V. Lee, 116 Upper Kennington Lane, London, S.E. 11. 390,036.

"FREEZOME"; for toilet articles (48). By Freese & Moon, Ltd., 59 Bermondsey Street, London, S.E. 1. 391,751.

"CRINIVIT"; for perfumery, etc. (48). By B. P. Healy, Sea Park, Skerries, Co. Dublin. 391,841.

"HENATOL COLOUR STIMULANT"; for hair preparations (48). By the Evan Williams Co., Ltd., 18 Ogle Street, Foley Street, London, W. 1. 392,671.

"PERDITA," "VELVAFROZE," "GLYCOPHEN," "FROZOSHAVE," "CRYSTOCLONE," and "KALYPTOS"; for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Hove, Sussex. 392,374/593/595/596 (associated) /598/871.

"BRUSAN"; for perfumery, etc. (48). By the Bruce-Smith Pharmacies, 40 High Street, Mexborough. 392,994.

"CHU-CHIN-CHOW"; for all goods (48). By J. Brach, 30 Rue Marbeuf, Paris. 393,245.

(*From the "Trade-marks Journal," August 27, 1919.*)

"SANKMAR"; for chemicals (1). By J. H. Sankey & Son, Ltd., Essex Wharf, Canning Town, London, E. 16. 392,711. (Associated.)

"HUSTLER"; for chemicals (2), medicinal chemicals (3), and for soap (50). By J. Knight, Ltd., Silvertown, London, E. 16. 392,532/3/4. (Associated.)

"VACUNA"; for medicinal chemicals (3). By C. Thompson & Sons, 159 Stratford Road, Birmingham. 388,053.

"CUROLE"; for medicinal chemicals (3) and for surgical instruments, etc. (11) By H. Becker, 105 Upper Thames Street, London, E.C. 4. 390,342/3. (Associated.)

"CASSONA"; for medicinal chemicals (3). By Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E. 1. 390,535. (Associated.)

Picture of nurse bandaging soldier's head; for ointment, etc. (3). By Nancy Kingsmill, 134 Mantilla Road, Tooting Bec, London, S.W. 17. 392,095.

"DUOGEN BRAND SOLUTION OF HYDROGEN PEROXIDE"; for medicinal chemicals (3). By The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. 1. 392,181. (Associated.)

"JABEZ WOLFFE'S CHANNEL EMBROCATION," with portrait of applicant; for an embrocation (3). By J. Wolffe, 12 Hampton Street, Brighton. 392,744.

"WINCARNIS IN TABLET FORM" and device of seal bearing words "A TONIC RESTORATIVE BLOOD-MAKER AND NERVE FOOD"; for a medicinal food (3) and a food (42). By Coleman & Co., Ltd., Lower Westwick Street, Norwich. 392,753/4. (Associated.)

"AJAX" under picture of same; for curative electric appliances (11). By Ajax, Ltd., 25 Holborn Viaduct, London, E.C. 1. 393,332.

"D.S.S.A. UNITY CO-OPERATION" on device of shield, etc. ("Unity" and "Co-operation" disclaimed); for food substances (42). By the Discharged Sailors, Soldiers, and Airmen's Co-operation, Ltd., 88-90 Chancery Lane, London, W.C. 2. 389,769.

"VIANDOX"; for food substances (42). By Liebig's Extract of Meat Co., Ltd., Queen Street Place, London, E.C. 4. 390,024.

"BROOKDALE" with landscape device ("Brookdale" disclaimed); for goods (42). By Morris & Jones, Ltd., 82-86 Whitechapel, Liverpool. 390,364.

"COVE BRAND" and seascape device; for food substances (42). By C. Coveney, 20 Bucklersbury, London, E.C. 4. 390,797.

"ZINGOS"; for beverages (42). By A. C. Lewin, 18 Fontenoy Road, Balham, London, S.W. 12. 392,010.

"UNEOOL"; for food substances (42). By the United Yeast Co., Ltd., 80 Miller Street, Manchester. 392,712. (Associated.)

"HELLO"; for food substances (42). By J. Delcher, 5-7 Rue Rondeaux, Lorient, France. 392,906.

"ROZKO"; for a grease and stain remover (47). By Justice, Scaife & Co., 8 Idol Lane, Eastcheap, E.C. 3. 390,224.

"SENOG"; for goods (47) and (50). By Jones & Munford, Fuller's Hill, Great Yarmouth. 392,356/7. (Associated.)

"SAPODA"; for ink-extractors from fabrics, etc. (47). By F. W. Pitt, 147 Elgin Crescent, Notting Hill, London, W. 11. 392,673.

"GROHAIR" and facsimile signature "P. G. Dales" ("Grohair" disclaimed); for a hair-growing preparation (48). By P. G. Dales, 8 Barnsley Road, Stairfoot, near Barnsley. 390,630. (Associated.)

"PARFUM À LA MODE" with device, including figure of man and Arabic characters ("A la Mode" disclaimed). By Jago & Jerome, Ltd., Nelson Street, Manchester. 390,867. (Associated.)

"DINKIE THE DAINTY DEODORANT," with picture of girl's head and shoulders ("Dinkie" disclaimed); for a deodorant (48). By Robartes, Ltd., 1 Dyer's Buildings, Holborn Bars, London, E.C. 1. 391,179. (Associated.)

"HARSOP" in script; for perfumery, etc. (48). By D. A. Rotberg, 24 Heriot Road, Hendon, London, N.W. 4. 392,007.

"MERITAL"; for all goods (48). By Wigglesworth, Ltd., Peel Street, Westhoughton, Lancs. 392,231. (Associated.)

"SABEEN"; for all goods (48). By Sabine Skin Food Co., 6 St. Winifred Road, Wallasey, Cheshire. 393,355.

(*From "The Trade-marks Journal," September 3, 1919.*)

"CORYPHEN"; for all goods (1). By J. Brown, 10 Dolefield, Bridge Street, Manchester. 392,141.

"DORA" for chemicals (1). By Murphy & Son, Ltd., 2 Dorset Square, London, N.W. 1. 393,476.

"BRORO"; for chemicals (2), medicinal chemicals (3), explosives (2), goods (47), and perfumery, etc. (48). By Brotherton-Ratcliffe & Co., Ltd., Winchester House, Old Broad Street, London, E.C. 2. 391,722/723/728/730/731. (Associated.)

"GLYCOIDS BRAND GLOBULES"; for medicated globules (3). By Smith & Co., 132 Borough, London, S.E. 1. 389,179.

"SMITH BROTHERS' S.B. COUGH DROPS," etc., with portraits of W. W. and A. Smith ("S.B." disclaimed); for medicated cough drops (3). By Smith Brothers, 134 North Hamilton Street, Poughkeepsie, New York, U.S.A. 389,386.

"CLASSIC BRAND" under device of two-handled vase ("Classic" disclaimed); for medicinal petroleum jelly (3), and for oils (47). By Mann & Cook, 7 St. Michael's Alley, Cornhill, London, E.C. 3. 389,705/707. (Associated.)

"CORNULAX BRAND OINTMENT"; for ointment (3). By G. Wells, 12 High Street, St. Albans. 390,185.

"OAK BRAND"; for menthol cones (3). By S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C. 1. 390,921.

"POOMO"; for skin ointments, etc. (3). By J. Duff, 31 Strathmartine Road, Dundee. 391,329.

"SAL PERRIC BRAND REMEDY FOR CONSTIPATION"; for a constipation remedy (3). By M. Brown, "The Pharmacy," Middle Street, Blackhall, Castle Eden, Co. Durham. 391,885.

"CORPORATION BRAND THE SACCHARIN CORPORATION, LIMITED," and device including monogram "S.C.L." and 550; for medicinal chemicals (3). By The Saccharin Corporation, Ltd., 36 Queen Street, London, E.C. 4. 392,328. (Associated.)

"IRITONE BRAND AN OINTMENT"; for an ointment (3). By P. M. Hancock, 169 Main Street, Wishaw. 392,836.

"WRINKLES"; for food substances (42). By A. W. Foster & Co., Ltd., Monson Street, Lincoln. 390,275. (Associated.)

"PANEL"; for goods (47) and for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 393,162/163. (Associated.)

Trade Notes.

GILLETTE SAFETY-RAZOR BLADES have increased in price. The terms to the public are now 4*s.* 6*d.* per packet of twelve blades.

DRYING MACHINERY for chemists is a special department of the British Fruit Evaporator Co., 7 Denman Street, London, S.E. 1.

"THREE STAR" BATTERIES for electric-lamps are manufactured by the Sunlight Manufacturing Co., Ltd., Paxton Road, Tottenham, London, N. 17. The various patterns are illustrated in the company's advertisement in this issue.

HARLEY'S THREE SALTS.—Mr. Harley, manufacturing chemist, Perth, makes a special offer of Harley's Three Salts to those chemists who order 3 dozen and make a window display of the preparation. The offer holds good until the end of the month.

PRICHARD & CONSTANCE (WHOLESALE), LTD., 469 Holloway Road, London, N. 7, report that their Amami perfumery is going well in Australia. Mr. W. J. Pike, who is representing them in the Commonwealth, cabled for Amami nail-stones within twenty-four hours of his arrival in Sydney.

G. O. SEIDLITZ POWDERS.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E. 13, are advertising the G. O. Seidlitz Powders in this issue. These are extra strong, flavoured with lemon, and sweetened. The powders retail at 3*d.* each, and are packed in envelopes printed in colour.

WINTER GOODS.—Parke, Davis & Co., 50-54 Beak Street, London, W. 1, remind the trade that it is time to lay in stock of winter requisites. Among these are mentholated bronchial lozenges, improved bronchial lozenges, and oral antiseptic tablets. A corrected price-list can be obtained on application.

SHOWCARD OFFER.—Some very charming showcards are offered by Thomas Christy & Co., 4, 10, and 12, Old Swan Lane, Upper Thames Street London, E.C. 4, to purchasers of Anthony Leighton shampoo and Papillon Vanishing Cream. The showcards are supplied to chemists who purchase definite quantities of these articles, and an extra quantity is given as a bonus.

RAYMET SHAMPOOS.—We have seen one of the showcards to which reference is made in the advertisement of Raymet & Co., Ltd., 507-509 Harrow Road, London, W. 10. The card, which measures 15 in. by 10 in., is printed in pale blue, and has on the right-hand side a photographic reproduction of a beautiful woman. It forms a good advertisement of the Raymet Shampoos.

RAT VIRUS.—The Rats Bill which will shortly become law proposes to render it compulsory for local authorities to take steps to destroy rats. In this connection Evans Sons Lescher & Webb, Ltd., call attention to the necessity of chemists holding a stock of Liverpool Virus, the bacteriological preparation for destroying vermin. The prices are given in an advertisement in this issue.

BOURJOIS' AGENCY.—To prevent misunderstanding in regard to the registration as a limited company of A. Bourjois et Cie., Ltd. (*C. & D.*, September 6, p. 49), we are asked to state that the company will be managed by Mr. Henry C. Quelch, whose firm, Henry C. Quelch & Co., 4 and 5 Ludgate Square, Ludgate Hill, London, E.C. 4, are still agents for Messrs. Bourjois for this country and the British Dependencies (except Canada).

TRELLECK CHALYBEATE SPRINGS.—Mr. H. G. Watkins, Chepstow, sends us copies of analyses made by Mr. G. R. Thompson, F.I.C., of the water from the Virtuous Wells, Trelleck, which Mr. Watkins has recently acquired. The water of one of the wells has for long had a reputation as a cure for eye diseases, another well supplies water used in eczema, and the main well is a tonic in anæmia. The wells depend for their virtues on the presence of bicarbonate of iron, the "eye-water well" containing 0.78 grain per gallon. Mr. Watkins is about to place the water of the springs on the market, so that it can be available for the general public.

GATES' CAPPING SKINS.—Mr. Leslie Gates, Hailsham, Sussex, has produced a new form of white capping skin, which he claims to be an improvement on the Baudruche skins generally used. One gross of the new skins will cap about 3,000 bottles at a cheaper rate than formerly. The skins are sent out rolled, damp, and ready for use. The following are the directions which Mr. Gates sends out with the skins:

In capping, care should be taken to put the smooth or face side of these skins outward. They are packed in rolls, damp and ready for use, and when capped the bottles should be put in a warm place to dry off quickly, as they will dry much whiter if not exposed to cold. When a box of skins is opened and not all used it is advisable to carefully cover those left to keep them damp for future use, or store in a corked jar for stock, damped down with a 2 to 3 per cent. solution of formaldehyde. If preserved in this way they will keep any length of time without deteriorating in the slightest. Should they become too dry at any time they have only to be put into water, when they will become soft again and ready for use.

"PEACE PAGEANT" CARDS.—Raphael Tuck & Sons, Ltd., Raphael House, London, E.C. 2, have ready a splendid selection of greeting cards for Christmas and the New Year, calendars, and gift books. The Peace Year is well reflected in the tone of the cards, the illustrations being mainly flowers, birds, and similar beautiful subjects. Among the Royal cards are the Queen's card with a delicate picture of the Angel of Peace, while Queen Alexandra's card represents the planting of the olive tree from which is to spring the League of Nations. A charming series of hand-painted cards have illustrations by Jennie Harbour of the Victorian, Directoire, and Pompadour period; and another pretty series, the Pot Pourri cards, have tiny perforated vases containing a few fragments of pot pourri—sufficient to give a pleasant perfume to the card. The Christmas Auto stationery consists of cards with coloured illustrations on the outside, and inside greetings are printed, with space for the name of the sender. Other cards are on celluloid, whilst silk embroidery is effectively employed in the Broderie d'Art series. The combination of Christmas card and calendar is an idea which will appeal to many; there is a good variety in this style. The wall calendars are unusually fine, each having a distinctive etching or coloured picture, and the variety is as great as ever. The Longfellow calendar has a bright picture of a herbaceous garden, and the calendars of the Art Etching series have large-size etchings of famous paintings as the centrepiece. The gift books consist of new volumes of the fairy tales of various nations, stories from the poets, and tales from English history. There is little doubt but that the approaching Christmas will see the complete revival of the old-time custom of freely exchanging greetings, so that those who sell Christmas and New Year cards should be prepared for a good season.

Information Department.

INFORMATION WANTED.

14/19. Sealing-wax moulds.
17/71. Adrinogen.
16/41. Carbolineum wood-preserving products.
16/36. "Wintheria."
16/47. "Iva" toilet rolls.
17/70. Epichlorhydrine.
18/48. "L'Ariette" perfume.
18/45. Waine's holder for Gillette blades (sharpening device).
18/71. "Ca-yu'-dora."
19/24. "Connaught" feeding-bottle.
19/39. "Sanatos."

INFORMATION SUPPLIED.

Aërated-water machinery (for India), 259/35
Camphor flowers, 17/8
Chinosol, 16/4
Colgate's preparations: agents, 18/31
"Common-sense" rat poison, 15/39
Covered pots, 15/15 and 17/73
"Cutex" preparations, 15/40
De Jongh's cod-liver oil, 16/42
"Estelle" feeding-bottle, 16/1
Oxien tablets, 19/27
Pond's vanishing cream, 19/32
"Pyrea" tooth powder, 19/26
Quinine Sulphate, 11/46
Rehman's calf lymph, 256/32
"Rex" electric brush, 11/62
"Sanico" toilet rolls, 257/36
Scott's emulsion, 13/29
"Septovince," 256/59
Tucker's Asthma Cure, 4/41
"U-All-NO" after-dinner mints, 11/38

Observations and Reflections.

By Xrayser II.

Chemists Should Feel Flattered

perhaps when magistrates and other administrators of the law demand from them compliance with a standard of conduct they do not apply to anybody else, but there are practical inconveniences to set against the implied compliment. In the Liscard borax case there was almost certainly a miscarriage of justice, and the magistrate's comments, however flattering, were beyond his powers. There was no evidence, and apparently no contention, that the borax was required as a drug, and the commonsense view certainly is that it was not; but the British Pharmacopœia is the standard for drugs only, and ought not, therefore, to have been brought into the case at all. A grocer, or some other of "the lesser breeds without the law," might have supplied precisely the same article without question which a chemist is heavily fined for selling—a monstrous anomaly. If this is made a legal precedent governing all similar cases we shall be in hourly danger, for there are many substances which both are and are not drugs. Hitherto it has been held sufficient for us to shield the public from actual injury; there was no pretence of injury in this case, and the demand upon us was increased to defending the public against "possible" injury.

The Shadforth Case

is another in which the law is applied to chemists with much greater severity than to other offenders. Mr. Shadforth, indeed, in a manner invited his fate by his injudicious action, but the very openness of his challenge to the law seems evidence in favour of the plea that his object was at least partly to obtain a definition of the scope of the Venereal Disease Act, in itself surely a laudable endeavour. In any case, the sentence passed upon him (now very properly reduced) was a savage one; even as it is now reduced it is in startling contrast with that passed on the Blackburn herbalist for an offence under the same section, and the conclusion of the Court that to answer a question as to the value of a medicine asked for, or even already sold, amounts to an offence against the Act puts us in an entirely different category from that occupied by any other tradesman. One cannot be a chemist for nothing.

The Term "Progressive,"

as applied to the party in pharmacy represented by the Progressive Pharmacy Club, is criticised and its appropriateness questioned in last week's "Pharmaceutical Journal," and since in the article referred to "Progressives" are challenged to make good their distinctive right to that title, I may reply here without any breach of journalistic etiquette. It is not necessary to follow the "Journal" into the metaphysical limbo from which the article starts. Optimism and pessimism, allowing that they exist at all, have still nothing to do with the matter, nor have the different ideas of progress held by Brown or Robinson respectively. It is not a question of programmes. The majority of the members of the Pharmaceutical Society, or of the Council, may theoretically have precisely the same programme as the minority who call themselves Progressives, and yet be, as compared with them, non-progressive. Whether we are progressive or not depends on the spirit we are of, not on our programme, but on the efforts we make to realise it. We all progress more or less, but I cannot think that the majority of the Council will have the effrontery to assert that they have been as active as the minority of "Progressives" in pushing the programme for which the latter contend. As for the majority of the Society, it is sufficient to recall the fact that more than 60 per cent. of the whole body did not vote at the Local Associations Executive election. Surely there is need for "Progressive candidates" to rouse us from such apathy; the Council has failed to do it: in heaven's name let the P.P.C. have a try!

A Programme,

however, is necessary, and if the Progressives have not already one with which the Society as a whole does not agree they are rapidly approaching the formation of one which the Council, at any rate, has always opposed and still opposes as strenuously as ever. It may be summed up in the one word "Federation," by which is meant the federation of all the associations into one body, comprising all pharmacists in business, and entirely independent of the Society, whose function it would be to foster and protect our purely business interests. Such a federation would, of course, be only a means to an end, but as circumstances have shown that it is the only feasible means of attaining our ends, it is in itself sufficient to fight for. Even those ends which the Council professes to desire as much as we it has failed to reach and has confessed itself unable to strive for, since the Charter blocks the way. As members of the Society, we are "cabin'd, cribb'd, confin'd," within the terms of the Charter, but as tradesmen we are not. Let us form an Association (call it what we may) on the lines indicated, and we may, if we like, be members both of it and of the Society. There is no reason why they should not run side by side, the "Profession" and the Trade working amicably together, but if we are forced to choose between the two we might conceivably get on better without the Society (as many of us already do) than without the Federation. Here, then, is a programme, if one is demanded; and I venture to say that a whole-hearted adoption of it by Progressives would speedily ensure its realisation.

The Report

of the Middlesex Pharmaceutical Committee for the year 1918-9 is a very satisfactory one, and this Committee is clearly almost a perfect model of its kind. The most important feature of the report is the paragraph relating to the terms of pharmaceutical service for 1920. In 1918 the Committee intimated to the Pharmaceutical Society that nothing short of a fee of sixpence per script (it should have said per prescription) could be regarded as satisfactory, but it has now adopted the more general demand for an increase of 50 per cent. on every existing fee, as meeting the case equally well. This, however, is not quite satisfactorily put forward. We are told that, "if vigorously acted upon," it "ought to be productive of beneficial results," which seems to suggest that the Committee might at a pinch be content with something less. I hope it does not really mean that. We ought to formulate a demand for a flat rate of at least sixpence per prescription, and, if necessary, present it as an ultimatum.

Shopkeepers and Dispensers of Medicines

are two of the three classes of workers (teachers in National schools being the third) upon whom—or, rather, upon the "vigorous and simple men" among them—Mr. W. B. Yeats says he most wishes to exert an influence—not to "elevate" or "educate" them, but to make them understand his vision. This is only possible, he says, to men capable of passion, of intense personal life, men of energy, and especially men capable of the faculty that "fills the imagination with joy." In everyday parlance, he wants to open their eyes, to give them courage to lose themselves in a great movement or a great vision, to rescue them, in short, from the tyranny of fear, ultimately the fear of poverty, of financial, and consequently social, disaster, and to give them the freedom that is the essential condition of complete and abounding life. Now, we pharmacists, being at once shopkeepers and dispensers of medicine, belong equally to two of these three classes, and would seem, therefore, to be in danger of a double damnation to grovelling realism and timidity in both thought and action. Is it indeed so? Recent events give too much colour to the suspicion that it is. Certainly we have shown a lack of courage and of vision; we have let the tide in our affairs pass the flood, and it is but too likely that our voyage henceforward will be bound in shallows and in miseries unless we wake up.

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Editorial Articles.

Then and Now.

The first number of The Chemist and Druggist was published on September 15, 1859, and it is excusable if in this number—sixty years after—we look back and endeavour to find out whether in that space of time any appreciable progress has been made in pharmaceutical matters. In another part of this issue we print a review of the chief events that have been chronicled in The Chemist and Druggist, which seems to show that the sixty years has not been barren in accomplishments, but also opens up the train of thought as to whether sufficient has been done during that period to merit congratulation. The United Kingdom in 1859 had not yet reached its zenith as an industrial country; indeed, we find the Registrar-General in his quarterly report stating rather pointedly, "England is a great agricultural country, and she will remain a great agricultural country to the end of time." It seems as though the effect of the great Exhibition of 1851 had hardly made itself felt, but the fact remains that the nation has since developed into the greatest industrial community in the world. It was thus particularly fitting that the pioneer drug-trade journal should be founded at this period. The Indian Mutiny had that year been suppressed, and the Volunteer movement inaugurated. These, and the commencement of the Suez Canal on May 25, 1859, are all subjects upon which much could be written in the light of the events of the past few years. Lord Macaulay died in 1859, and in the same year was published Tennyson's "Idylls of the King," Eliot's "Adam Bede," Meredith's "Richard Feverel," whilst Dickens was editor of "Household Words." In the political world Lord Derby was defeated over the Reform Bill, and was succeeded as Premier by Lord Palmerston. This circumstance had, as it happens, considerable influence on pharmacy, because at that time the Government was intent on passing a Sale of Poisons Bill. This Bill had been withdrawn in 1858, but before the end of the year a terrible poisoning calamity occurred at Bradford. A druggist had supplied a local confectioner with arsenic in mistake for "daff"—calcium sulphate used as an adulterant in the manufacture of lozenges. The druggist's boy had mistaken the cask, which was obscurely labelled. The confectioner used the arsenic in the manufacture of peppermint lozenges, which were sold in the market-place. Twenty persons lost their lives, and over 200 were made seriously ill. This occurrence naturally excited the public mind, and the Government were almost compelled again to take in hand the regulation of the sale of poisons. The Bill was a modification of

the previous one, but, owing to the opposition, it was withdrawn on the eve of the defeat of the Government. Some of the provisions of the Bill referred to are strangely reminiscent of the requirements of the Cocaine and Opium Order now in force, not passed by Parliament, but by a Government Department! In the Sale of Poisons Bill constables were to be empowered to search chemists' shops, which has its parallel in the Cocaine and Opium Order, by which policemen with no pharmaceutical or medical knowledge go through the form of inspecting cocaine- and opium- registers. The hundred-pound fine of the Cocaine and Opium Order also seems to have originated in this Poisons Bill. Early closing was another live subject in 1859, but for many years very little improvement was made in the long hours of the drug trade. The Shops Act, 1912, and the War Emergency Regulations have, however, enabled us to chronicle distinct advances in public opinion. As regards pharmacy, we must remember that there was a certain amount of confusion owing to the existence of three pharmacopœias—the London Pharmacopœia 1851, the Edinburgh Pharmacopœia 1841, and the Dublin Pharmacopœia 1850. The strength of important preparations of the three pharmacopœias varied considerably, and such household medicines as spirit of sal volatile and compound rhubarb pills had different strengths and flavours in the three countries. The Medical Act, 1858, had authorised the newly constituted General Medical Council to produce a national pharmacopœia, and one of the first actions of the Council was to get in touch with the Pharmaceutical Society, Mr. Peter Squire being the delegate appointed to act with the General Medical Council in the preparation of the projected British Pharmacopœia. The question of the adoption of metric weights and measures was perplexing the compilers, and the fact remains that it was only in the British Pharmacopœia 1914 that the movement had sufficiently advanced to publish the official formulas solely in the metric system. It must be confessed that even now the system is seldom employed in prescriptions, and chemists generally use Imperial weights and measures in making up galenicals. Jacob Bell, the founder of the Pharmaceutical Society, died of laryngeal phthisis in June 1859. He was President at the time, and at the annual meeting in May his address had been read by Mr. T. N. R. Morson, as Mr. Bell was "suffering from an affection of the chest." The Jacob Bell scholarships were founded the same year in his memory, among the subscribers to the fund being the Royal College of Physicians. Mr. Bell left the Pharmaceutical Society 2,000*l.*, and the nation received from his executors several valuable pictures, including the well-known "Dignity and Impudence" (Landseer), "The Horse Fair" (Rosa Bonheur), and "Derby Day" (Frith). The year of the birth of The Chemist and Druggist was thus a memorable one in pharmacy, and the intervening years have seen many equally stirring events. This year heralds the conclusion of peace after the most terrible war in the world's history. We hope that so soon as the commercial unrest has quieted down an era of prosperity will open that will quickly heal the wounds and soothe the asperities of war, thus providing the means of further progress in human affairs.

Overseas Trade Recovery.

The signs of improvement in our overseas trade noted in the July Board of Trade Returns continued during August also; in fact, last month's returns are more satisfactory than any we have recently had, this pointing to the fact that the campaign for increased output of our manufactures is having a stimulating effect. This is reflected in the month's exports, which show an increase of over 70 per cent. compared with August last year, the shipments of British merchandise being valued at 74,773,278*l.*, or 31,251,041*l.* more. The import figures are unusually interesting, because they show our trade for the last month, while the import restrictions remained in full operation. The value of imports was 148,832,393*l.*, against 110,179,501*l.* in August last year, an advance of 38,652,892*l.* This enormous increase at a first glance may not appear to be encouraging, but it must be remembered that since the armistice this country has been more than ever an entrepôt for Europe, and that a considerable proportion of the imports now congesting our ports will probably be reshipped abroad as international trade recovers. This is already observable in the re-exports, which rose from 2,277,335*l.* in August 1918 to 15,311,244*l.* last month, and with the gradual recovery in Continental trading these figures should improve month by month. It is satisfactory to note that our imports of manufactured goods last month declined by almost three millions sterling to 21 millions, while foodstuffs and raw materials were 19¼ millions and 21⅓ millions more respectively. As showing how the import restrictions and adverse exchange have operated in the chemical and associated industries, there was the substantial decline of 2,451,538*l.* for the month, imports being valued at only 1,773,344*l.*, compared with 4,224,882*l.* in the corresponding month of last year. The largest decline is in unenumerated chemicals, which fell from 2,324,318*l.* to 275,269*l.*, and among the lesser declines were acetic acid, from 9,375 cwt. to 5,224 cwt.; brimstone, from 85,050 cwt. to 10,565 cwt.; cream of tartar, from 6,428 cwt. to 1,651 cwt.; saltpetre, from 53,926 cwt. to 66 cwt.; and Peruvian bark, from 4,348 cwt. to 1,160 cwt. Dyestuffs and tanning substances also suffered a substantial decline. The marked activity in the paint industry is reflected in imports of painters' colours and pigments of 162,672 cwt., against 33,727 cwt. in August last year. The boron compounds figures—26,239 cwt., or about the same as last year—are insufficient to meet the demand; tartaric acid shows a big increase of 1,115 cwt., and there was a marked improvement in the receipts of quinine, referred to in detail in our Trade Report. Last month we imported over 12½ million sterling of oil-seeds, fats, gums, etc., which was 51,371*l.* less than last year, but it is satisfactory to record that the quantities imported (except in the case of petroleum) were much larger, the big imports of linseed (308,120 quarters) being a feature which will be continued this month also. On the export side, there was an increase compared with last year of 1,649,310*l.* in foodstuffs, and 3,105,732*l.* in raw materials, of which coal contributed only 518,765*l.* As usual the chief gain was in manufactured goods, which reached 61,716,903*l.*, an increase of 27,315,368*l.* on August 1918. The textile trades had the lion's share of this increase, exports aggregating almost 35 millions sterling. There was an expansion of 361,084*l.* in the shipments of chemicals, drugs, and allied goods, the total being 2,458,265*l.*, of which 385,587*l.* was for drugs and medicines, or 99,000*l.* more than last year, showing that business in this section is well maintained. On the other hand, the heavy chemical branch was less active, this applying in particular to soda compounds, copper sulphate, and coal-tar products. There is, however, a much-needed revival in the chemical manures section, comprising ammonium sulphate, superphosphates, basic slag, and so on, all of which our Colonies need badly.

The Quinine Position.

The semi-official announcement which we made last week, that the Government control of quinine was to be removed forthwith, has once again concentrated keen interest in this alkaloid. At the time of closing for press the notice had not been published in the "London Gazette," but it may be assumed that this is due to not unusual departmental delay. It will be remembered that, according to the Quinine (Dealings) Order, November 7, 1918, the basis price for 10,000 oz. and upwards was fixed at 2*s.* 11*d.* per oz., but it has now been practically decided that the makers' price for this quantity is to be 3*s.* 5*d.*, less the usual discount—a rise of 6*d.* As was pointed out last week, the Government control price during the war was not representative of the actual economic conditions affecting the drug. In other words, the Dutch makers maintain that their expenses have increased considerably, and that the 6*d.* is to meet the extra cost of labour, fuel, etc., and not in order to increase their profits. At the same time, the huge dividends paid by the Dutch and Java quinine factories have indicated unusual prosperity

for some years past, although it must be admitted that the combined capital is comparatively small. Since the announcement last week there have been many inquiries for quinine in Mincing Lane, but the actual amount of business done must be very limited indeed, as the stock is not available. Sellers also hold back, preferring to wait the Government notice, on the publication of which the market will probably adjust itself to about 3*s*. 6*d*. to 3*s*. 9*d*. per oz. It may be pointed out that pending decontrol it is still illegal to sell or buy quinine in quantities exceeding 1,000 oz. During the war it must be said that those who handled the quinine situation on behalf of the Government had a very difficult and delicate task; but it may be recorded that there is little, if any, dissatisfaction among the legitimate distributors, who, when the machinery was in operation, were able to obtain their quinine requirements with the minimum of delay. It is no secret to say that there is a shortage of quinine throughout the world, and, as speculators are looking forward to resuming operations, the danger of inflated prices may again have to be faced. Until the surplus stocks held by the Government are disposed of, the position is likely to remain more or less unsettled.

Supply of Venereal Disease Remedies.

We have received inquiries from subscribers regarding the Shadforth case which make it desirable to state what was the point upon which it was desired to obtain a definite judgment. The full text of the Venereal Disease Act is given in *The Chemist and Druggist Diary*, 1919, p. 96, from which it will be seen that Section 1 (1) prohibits anyone but a medical practitioner from treating any person for venereal disease, prescribing any remedy, or giving any advice. It was known before the Shadforth case that it was perfectly legal to sell remedies for venereal disease so long as no recommendation was made, and the point which it was desired to bring out in the Shadforth case was whether what was said to the purchaser of the syphilis remedy could be said to be giving advice within the meaning of the Act. The prosecution was apparently more concerned in getting a conviction at any cost and a good deal of evidence was given as to Mr. Shadforth's views on the injustice of this particular legislation. It will be remembered that at the last election Mr. Shadforth vigorously opposed Sir Edwin Cornwall, whom he considered, as Chairman of the National Health Insurance Commissioners, had betrayed the public interests in helping to create a medical monopoly in the treatment of venereal disease. The magistrate's summing up was also in our opinion far from being impartial, and the jury was probably influenced by some idea that public morals were in question. The Court of Criminal Appeal (*C. & D.*, September 6, p. 48), however, considered the matter judicially and very properly modified the outrageous sentences passed on Mr. Shadforth and Mr. Wilson. The Lord Justices came to the conclusion that "there was evidence of recommendation which amounted to advice." The position chemists are in is best illustrated as follows: If a customer asks for "a box of copaiba capsules" the chemist can supply, but without any comment. If the customer puts it this way, "a box of copaiba capsules for gonorrhœa," the chemist can still supply, but must make no comments. If, however, the customer says "I want a box of copaiba capsules; are they good for gonorrhœa?" it is an offence under the Venereal Disease Act for the chemist to answer the question. He should tell the customer that the Venereal Disease Act prevents him replying to the question. It seems, in fact, that a chemist may even be sent to prison for advising a customer where to seek medical treatment. This, of course, applies only to those districts which are scheduled areas.

British-made Zinc Oxide.

Apparently the efforts which have been made by manufacturers of zinc oxide in this country to develop their operations and thus render home consumers less dependent on imported foreign material would seem to have passed unnoticed, judging from the apprehension that was aroused among certain users of high-grade zinc oxide in consequence of the recent announcement by the Board of Trade as to the prohibition of importations of zinc oxide except under a special licence. Reference was made to this in a letter to the "Times" last week, in which it was stated that a leading British manufacturer, desirous of using a high grade of zinc oxide which is not at present being manufactured in the country, but which to him was an essential raw material in the production of an article for export, complained that he was unable to obtain supplies and must go on using an inferior material unless he put himself in the hands of a merchant who happened to be importing zinc oxide in 1913. As was to be expected, this misapprehension was speedily cleared up by a reply in the "Times" to the letter of complaint referred to, in which it was pointed out that the highest grade of zinc oxide is manufactured on a large scale by an old-established English firm. We understand that this refers to 99.9 per cent. oxide, or so-called "white seal," the purity and colour of which product are fully equal to the highest grade of imported zinc oxide. The current price of this high-grade "white seal" is 80*l*. per ton; the two lower grades, also made by the same old-established firm and which are used freely by druggists, are the "green seal," now quoted at 72*l*. 10*s*., and the "red seal," quoted at 68*l*. 10*s*. per ton. The inquiries which we have made from the chief representatives of the leading home manufacturing firm making this material have elicited the fact that they are in a position to give immediate delivery of the high grade especially referred to, viz. "white seal." The prohibition of imports ordered by the authorities will, of course, hold up foreign competition, which was very much in evidence for some time past; but home consumers of zinc oxide should certainly have no particular difficulty in securing their needs from the supplies available and produced in the country. The American exports of zinc oxide for the first five months of this year amounted to 4,505 tons, against 4,296 tons and 6,445 tons respectively in the two previous years, a considerable portion of which probably came to this country. Fair quantities were received from Holland of late years, chiefly of low-grade material.

A Bell Scholar's Pharmacy.

17 Upper Tooting Road, London, S.W.

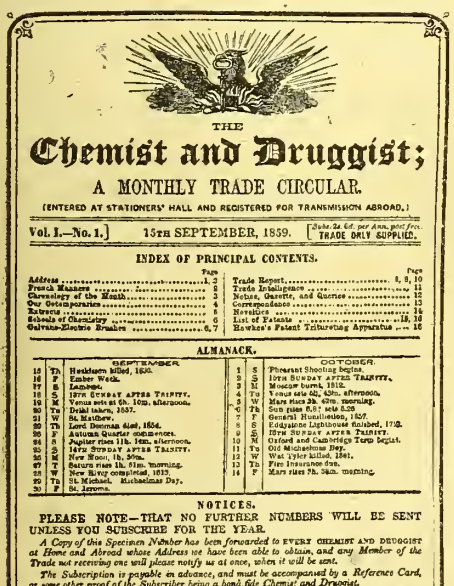
Mr. John Ingham, Ph.C., was Junior Bell scholar in 1868, the year in which John Moss was Senior scholar. In the 1869 session Mr. Ingham was medallist in Chemistry and Pharmacy and in Practical Chemistry, and was awarded a certificate of honour in Botany and Materia Medica. In due course he passed the Minor and Major examinations. Over thirty years ago he had a pharmacy built to his own design at 17 Upper Tooting Road, S.W., and our engraving is from a photograph of it. It is an ideal position for a pharmacy, and the exterior is consistent with the characteristics that are so well appreciated in family businesses. The interior is chaste and substantial, and measures 18 ft. by 30 ft.

Hypodermic-syringe Needles for China.—H.M. Minister at Peking has drawn attention to the fact that, although the import of hypodermic-syringe needles into China is at present prohibited, a number of consignments of these instruments are being despatched, doubtless as trade samples. It is pointed out that this is an infringement of the prohibition.

SHAKESPEARE'S phrase, "as tedious as a twice-told tale," has passed into a proverb, and in offering a few remarks on the diamond jubilee of this journal we are seriously handicapped by the fact that the story of its rise and progress for the first fifty years of its history has already been told with a wealth of information obtained in many cases from original sources. Fortunately, the interest of the story is so various that it is possible to re-tell it from a different point of view, and almost without trespassing upon ground previously traversed. Fully told it would be a history of British pharmacy for the period it covers, but considerations of space confine us to one or two of its aspects only, and predilection leads us to treat it mainly as a chapter in the history of pharmaceutical journalism.

EARLY SCIENTIFIC JOURNALS.

A brief preliminary sketch of such journalism of the kind as preceded the appearance of THE CHEMIST AND DRUGGIST will not be out of place. The first European serial dealing with science and its history, and one that gave prominence to pharmacy, was, says M. Eugène Guitard in his "Deux Siècles de Presse au Service de



THE

Chemist and Druggist;

A MONTHLY TRADE CIRCULAR.

(ENTERED AT STATIONERS' HALL AND REGISTERED FOR TRANSMISSION ABROAD.)

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ALMANACK.

SEPTEMBER			OCTOBER		
15	Th	Henldsen killed, 1830.	1	S	Pheasant Shooting begins.
16	F	Ember Week.	2	S	19TH SUNDAY AFTER TRINITY.
17	S	Lammas.	3	M	Moscow burnt, 1812.
18	S	18TH SUNDAY AFTER TRINITY.	4	Tu	Venus sets 6h. 42m. afternoon.
19	M	Venus sets at 5h. 10m. afternoon.	5	W	Mars rises 3h. 43m. morning.
20	Tu	Drink taken, 1557.	6	Th	Sun rises 6.57: sets 5.38
21	W	St. Matthew.	7	F	General Humiliation, 1597.
22	Th	Lord Deemsa died, 1654.	8	S	Eddystone Lighthouse finished, 1702.
23	F	Autumn Quarter commences.	9	S	20TH SUNDAY AFTER TRINITY.
24	S	Jupiter rises 11h. 18m. afternoon.	10	M	Oxford and Cambridge Term begins.
25	S	16TH SUNDAY AFTER TRINITY.	11	Tu	Old Michaelmas Day.
26	M	New Moon, 1h. 30m.	12	W	Wat Tyler killed, 1381.
27	T	Saturn rises 1h. 51m. morning.	13	Th	Fire Insurance Co.
28	W	New River completed, 1613.	14	F	Mars rises 2h. 34m. morning.
29	Th	St. Michael. Michaelmas Day.			
30	F	St. Jerome.			

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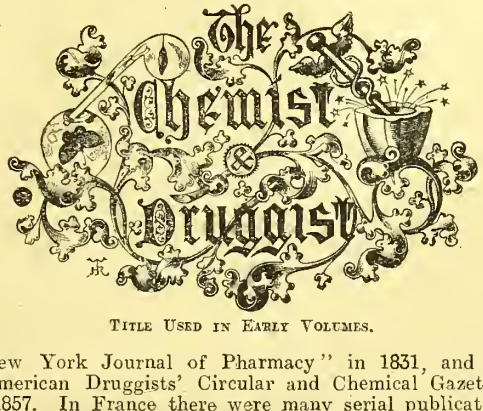
FRONT PAGE OF THE FIRST NUMBER.

la Pharmacie," the "Journal des Sçavans," which began to appear in 1565 at Paris. Third among its ostensible objects was a record of "les experiences de physique et de chymie . . . les nouvelles découvertes qui se font dans les arts et dans les sciences." Not until close upon a hundred years later was any similar publication attempted in any other language, but in 1663 England followed suit with "Philosophical Transactions," published under the auspices of our Royal Society, in which considerable prominence was from the first given to pharmacy and materia medica, and to which we have still to go for the earliest notices in English of several of our drugs. Its early volumes contain valuable articles on such subjects as laudanum, aloes, vitriol, etc., and historical essays on the progress of pharmacy in lands as far apart as Spain and Mexico.

Italy was next in the field, in 1668, with a number of publications in different places under the general title of "Giornale de letterati." Germany was but little behind with the "Miscellanea Curiosa Medico-physica Academiæ Naturæ Curiosorum" (Leipzig, 1672) and the "Acta eruditorum" (1682); and very soon similar publications began to appear in Holland, Belgium, at Geneva, in Russia, and virtually all over Europe.

Returning to our own country (for a continued wider survey is impossible here), the first really important English journal of pharmacy was, says M. Guitard, the "Medical and Physical Journal," conducted by Drs. Bradley and Batty, the first number of which appeared in 1799, and which ran in monthly parts until 1823. "The Chemist" (only two volumes of which appeared) followed in 1824-25. Another publication with the same title was started in 1839 and ran until 1858. The publisher of this in the volume for 1843 made sarcastic reference to two rivals that had recently made their appearance, the "Pharmaceutical Journal and Transactions" that we know so well (started by accident in 1841 in the form of a circular to the members, making known the objects of their scientific meetings), and the "Annals of Chymistry and Practical Pharmacy," which ran only during the year. The "Pharmaceutical Times" started in 1846 and lived three years. Of the two last-named M. Guitard makes no mention, but he groups together in a note a number of other more or less short-lived serials of the time, and ends his survey with the "Chemical Gazette," *mère* of the "Chemical News," and THE CHEMIST AND DRUGGIST, whose first monthly number was issued on September 15, 1859. Meanwhile, year-books of pharmacy and journals of various kinds dealing with the same subject had appeared or were appearing in different countries of Europe, and in America the "American Journal of Pharmacy" began its career in 1820, at Philadelphia, the



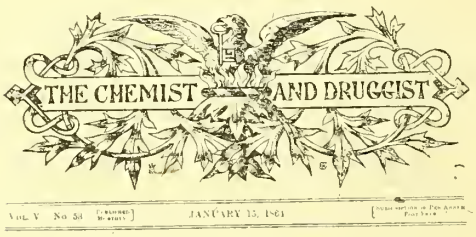
TITLE USED IN EARLY VOLUMES.

"New York Journal of Pharmacy" in 1831, and the "American Druggists' Circular and Chemical Gazette" in 1857. In France there were many serial publications more or less directly dealing with pharmacy, the most important of which was the "Journal de Pharmacie et de Chimie," founded in 1809 and still issued regularly.

Such was the atmosphere in which the *C. & D.* was born sixty years ago.

The First Decade.

In briefly tracing its career it will be convenient to divide the story into six decades, which will vary in length in proportion to the varying interest and importance of their contents. The journal was established, as everybody knows, by the Morgan Brothers, merchants, who are still its proprietors, and one of whom, Major W. V. Morgan, acted for a short time as its first editor. Its first number, which appeared on September 15, 1859, was (exclusive of advertisements) an octavo of sixteen pages, and its first regular editor John Cargill Brough, the beloved "Jack Brough" of whom Mr. Ince afterwards said that he was "Charles Lamb turned chemist." He was a life-long invalid, and died at thirty-eight years of age, but his acquirements and the amount of work he managed to do were extraordinary. He retired from the editorship (though still remaining a contributor) in 1870, on being appointed librarian to the London Institution Library. The *C. & D.* differed from most of the publications named above in being ostensibly not so much a scientific as a trade journal, but, although trade matters were its first concern, it was never a mere trade circular. Even the first volume contained many valuable scientific articles specially written for it, among them being a series on quantitative analysis, by Dr. Noad, a botanical calendar, a history of chemistry, a series on the science of familiar things, another under the title of "Fragmenta Veterinaria," and single articles on such subjects as lithium and its salts, atropine, glycerin, the collection and preservation of plants, etc. Its monthly "Price Current" (strangely resented in some quarters) and its articles on such trade matters as early closing (which then as now was a vexed question) and uniform prices,



Title First Employed in 1864 and Still in Use.

its monthly page of trade intelligence, its correspondence, its "Notes and Queries," its short, pithy, pertinent editorials, and other similar features gave it a distinct and unique value, which accounts for the rapid growth it made in size and influence. Before the end of its first year the sixteen 8vo pages had increased to thirty-two, and in 1864 a 4to size was adopted, giving it much the appearance with which we are familiar. This change was objected to by some readers as less suitable to a literary organ, a fact which at least speaks highly of the quality of its contents. This had indeed from the first been so high that jealousy was aroused (partly, perhaps, owing to a few outspoken correspondents) in official circles, and in the third number Mr. Ince protested in an angry letter against its setting up as a mere rival to the "Pharmaceutical Journal." Here perhaps we have the *fons et origo* of the feud, which cannot be denied to have existed more or less pronouncedly between the two, and in which the older of the two was the first and most consistently hostile aggresor.

That Mr. Ince's charge was unfounded the Editor had no difficulty in showing, and indeed Mr. Ince himself came to the same conclusion, for he became, and for years continued to be, a regular and valuable contributor to its pages. It was, however, only natural that the attitude taken up by some members of the Society at this time, and maintained still by many, should tend to add causticity to the criticism of official actions and utterances to which the *C. & D.*, as the spokesman of the trade generally, has from time to time been provoked. Unfounded charges of this kind, like curses, generally come home to roost. It is not meant that the *C. & D.* has ever been betrayed into an exhibition of hostility on personal grounds, but to assume that your neighbour is your opponent is as likely a mode as any to make him so.

The relations between the new paper and the official class were not improved by the formation of the United Society of Chemists and Druggists in the summer of 1860, under the auspices of its promoters. There was perhaps a little more cause (though there was little enough) why the Society should be jealous of this new Association, but, as was pointed out in the *C. & D.* at the time, it is a fact that none of the objects of the latter was met by the Pharmaceutical Society, except its proposed Benevolent Fund, nor did this really conflict with that Society's own Fund, since the latter was intended for the benefit of its own members only. The rivalry of the two Societies was, of course, greatly increased by their respective efforts to get a Pharmacy Bill through Parliament, and this was naturally reflected in the *C. & D.* We can, however, after going carefully through all the volumes for the years during which this controversy extended, say without fear of contradiction that in the main the *C. & D.* held the scales equally between the two Societies.

Let us turn to more agreeable matters. The second volume of the *C. & D.* contained, in addition to a continuation of Dr. Noad's papers on analysis, a valuable series on "Photographic Chemistry," by C. W. Quin, F.R.S., and another on the "Natural Orders of Plants." In the following year appeared the first of its long series of descriptive articles on great manufacturing houses, the subject of the first being Colman's mustard works at Norwich. In 1862 there was a series on the "Chemistry and Pharmacy of the International Exhibition" of that year, including lists extending over thirty-five pages of medical and pharmaceutical substances shown there. There was some friction in this year with the Pharmaceutical Society over the Medical Bill of the doctors (which was ultimately defeated owing in no small degree to the opposition of chemists). Next year the British Pharmaceutical Conference was started, and the wholehearted way in which it was supported by the *C. & D.*, and defended from the charge of being a mere bulwark of the Society, proves that this journal upheld a high scientific standard before its readers and was free from jealous and illiberal sentiments. In 1864 the first British Pharmacopœia was published, and was made the subject of a long series of descriptive articles by the Editor and Mr. J. C. Braithwaite. It was, we believe, in this year that the first report of a local association (that of Leeds) appeared, and there were long reports of several important law cases. The reports of the meetings of the B.P.C., too, became in this year an important feature, and the great fight over the Pharmacy Bills raged hotly. So judicial was the attitude of the *C. & D.*, that some correspondents complained of its lukewarmness towards the United Society, and a suggestion for the establishment of "a new organ" in its support was made. Next year, however, the *C. & D.* was declared to be "firmly established" as the organ of the chemists and druggists of the United Kingdom.

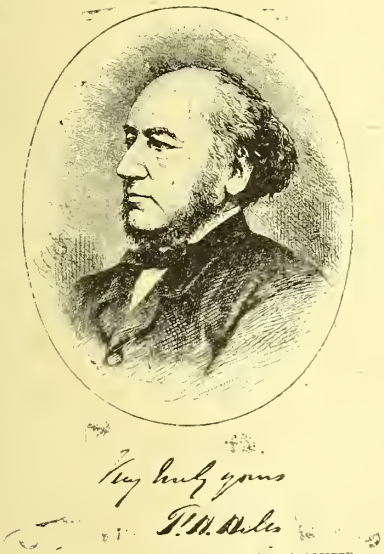
In 1868 the paper was again considerably enlarged, and reports of local associations appeared regularly. In this year the Students' Corner was opened, and original scientific articles became a more frequent feature. The Pharmacy Act of the year was received soberly, as being in the main in accordance with the wishes of the trade, though containing some provisions that were "inconvenient" and needlessly stringent. In this year too, we believe, the *C. & D.* first "dropt into poetry." In 1869 reports of the meetings of the Pharmaceutical Council began to appear. These were for a long time necessarily copied from the "P. J.," which alone was allowed to receive such reports as the Council deigned to issue. There had been a great fight in the Council over the question; Mr. Reynolds, of Leeds, led the agitation in favour of issuing reports; Mr. Sandford the opposition to it. The *C. & D.* was, of course, strongly in favour of reports,

though some even of its correspondents protested against so "vulgarising" (!) the Council. Finally, for this decade, the *C. & D.* Diary began to appear as a crown 8vo volume of 128 pages, published at 1*s*.

Second Decade.

In 1870 Mr. J. C. Brough retired from the editorship, though he continued to be a contributor. Mr. Alfred Charles Wootton, who had for three years or so been a member of the staff, succeeded to the vacant post, which he retained until 1899. Shortly after resigning it he began, and continued until his death, in 1909, the series of "Observations and Reflections" which still form a feature of the paper. His influence as Editor speedily

THE CHEMIST AND DRUGGIST PORTRAIT GALLERY.



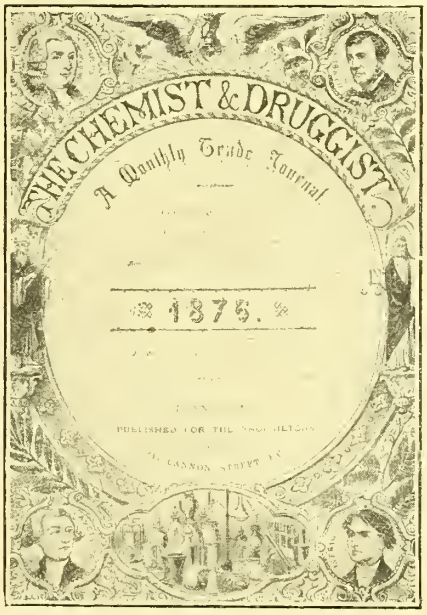
THE PRESIDENT OF THE PHARMACEUTICAL SOCIETY.

THE FIRST OF A SERIES OF FULL-PAGE PORTRAITS WHICH BEGAN ON AUGUST 15, 1873.

made itself felt, chiefly by the more frequent appearance of articles of historical and antiquarian interest. The first of these from his pen was a graphic account of a visit to the opium-smoking den in Chinatown, which figures so prominently in the opening chapters of "Edwin Drood." For a while Mr. Wootton's "editorials" were little more than brief "notes" on current topics, almost entirely free from politics, but in April '71 he was provoked to an outburst against both the Council and its organ on the subject of the new compulsory Poisons Regulations which they favoured. A severer castigation had never before been given to them, and from this date the *C. & D.* seems to have taken a more distinctly and consistently critical attitude to officialdom than it had hitherto done. It had now won the approval and support of many who had at first decried it, and Mr. Ince, already a contributor, was soon to co-operate with the editor in the writing of important articles. In 1872 there was another hot debate in the Council over the admission of independent reporters to its meetings, the champion of the liberal policy being Mr. Betty, Park Street, N.W. (whose son still carries on the family business), and a resolution was ultimately passed virtually allowing it, but only by invitation of the Council. Other progressive measures which the *C. & D.* strongly supported, in common, of course, with this, were the admission of women to the Society, and the improvement of the lot of assistants. The newly-formed Union of Assistants received from the first its strong support. Among the most interesting features of Mr. Wootton's editorship were the long biographical notices, with full-page portrait illustrations, of leading men in the trade and Society, such as Charles Maw, Theophilus Redwood, Robert Bentley, John Attfield, and the brothers Newbery. Similar articles, similarly illustrated, had appeared before, among them a most interesting chapter of autobiography by Henry Deane, but these had been discontinued for some time.

Third Decade.

Mr. Wootton had now been in the saddle for nine years, and his power as a journalist and editor had virtually attained its zenith. In 1880 an article recommending the spectacle trade as a side-line appeared, with directions as to the best method in which it might be taken up. In this year, too, a judgment of the House of Lords, making unqualified company pharmacy possible, was delivered, causing no small consternation in our ranks. The *C. & D.* boldly called on the Council to approach Parliament with an Act amending that of 1868, and protecting chemists against this new danger. A Committee of the Council was formed to discuss the matter, and they—discussed it. A Bill was, indeed, after much delay, submitted to the trade, but it was never presented to Parliament. It followed much the same lines as those laid down by the *C. & D.* There were, however, some fantastic additions to which this Journal strongly objected, and it was these which ultimately caused the Lord President of the Privy Council to refuse his sanction to its introduction to Parliament. Articles on pharmacy abroad, and in our own dependencies now became more frequent, foreshadowing the international position (as it might be called) which the *C. & D.* has since attained. THE CHEMIST AND DRUGGIST OF AUSTRALASIA was founded in 1885, and it is interesting to note that Mr. W. G. Piper, who went out shortly afterwards to be its Editor, still retains that position. Mr. Piper was a member of the editorial staff of the *C. & D.*, and is chiefly remembered here for his articles on medicinal plants and the perfect system of indexing he introduced.



TITLE PAGE IN 1876.

In January 1886 it was announced that the Pharmaceutical Society of South Australia had contracted for a supply of the paper to all its members. Another striking development occurred in March of the same year, when the weekly issue of the *C. & D.* commenced. An announcement of a fortnightly appearance had been made

the month before, but the desire for a weekly one was so strongly expressed by subscribers that the more daring step, which has proved so successful, was at once taken. It was in the March of this year that Mr. Peter MacEwan, formerly secretary to the Pharmaceutical Society in Scotland, became assistant-editor. New features appeared as a consequence of the more frequent issue, among which were the post-card competitions, which both stimulated the invention and added to the gaiety of the craft. They did not escape the ridicule of some of its "sobersides" but they became very popular, and many of them were really useful. The first of the series was in answer to the question, "What drugs are most frequently prescribed?" The answer which gained the first prize was, "Sp. chlorof., pot. bromid., vin. ipecac., sodæ bicarb., sp. ammon. ar., quin. sulph." We wonder what the winning list of six articles would be to-day! In 1887 an attempt was made by some members of the Pharmaceutical Society of Ireland to get the *C. & D.* accepted as the official organ of the Society in place of the "Pharmaceutical Journal," but after having been several times somewhat warmly debated the proposal was temporarily defeated by a vote of the Council. Another attempt was made next year, with the same result, the defeated members, however, declaring that the *C. & D.* was their favourite trade journal and must be subscribed for if not officially provided. Ultimately (in 1891) the insistence of Irish pharmacists upon the change being made prevailed, and it was made accordingly.

Fourth Decade.

It is manifestly impossible to continue this record, decade by decade, in detail, and as the character of the *C. & D.* at the period at which we have arrived was very much what it is now only the most important events in its history from this point can be noticed, however briefly. The most outstanding event of 1890 was the abortive Pharmacy Bill of the Pharmaceutical Council, to which the *C. & D.* gave a strong but reasoned opposition, not so much on the ground of what it contained as of what it did not—namely, the insistence on a personal qualification for all who profess and call themselves pharmacists—and the way in which it was sprung upon the trade. The parturient pains with which the Council is periodically troubled have with few exceptions had for their chief motive the enforcement of a curriculum and this was the case with the Bill in question. The *C. & D.* had no particular love for a curriculum, but accepted it as apparently demanded by those who were "in the best position to judge." Mr. Freshfield Reynolds, of Harrogate, was among those who strongly expressed their disagreement with the proposal. The most objectionable feature of the Bill, however, was Clause 6, which, it was asserted, would lay open to serious penalties any chemist who allowed an unqualified assistant or apprentice to dispense the simplest prescription or to sell a pennyworth of paregoric. The Bill was ultimately abandoned. A little breeze was roused this year by a circular put forward in the interest of retiring members of Council, in which objection was taken to the apparently new practice of criticising the past record of such servants of the Society, and demanding that they should be asked to state their views for the guidance of the constituency. What had been alleged against these retiring members was that they had neglected trade interests, and the occasion was taken by the *C. & D.* to criticise the Council in this respect and to protest against the idea that past services, or alleged services, are a sufficient reason for re-electing members whose future policy is uncertain, or even repugnant. Without committing himself to the recommendation of any set of candidates, the Editor strongly condemned the attempt of supporters of the Council to dictate to others or to direct the consciences of those as much interested as themselves.

Another Pharmacy Bill, on much the same lines as the last, was drafted by the Council later in the year, and the President (Mr. Carteighe) stumped the country in advocacy of this (his fifth) measure. The *C. & D.* followed him with a running commentary (mainly critical, and occasionally sarcastic), its attitude towards the curriculum becoming more adverse as time went on. This new Bill was introduced into Parliament next year, but in spite of the strenuous support of the Council it received none from outside. Numerous petitions were presented against it, the *C. & D.* continued to protest its inadequacy and general futility, and it, too, like its many predecessors, was withdrawn. But it is becoming tedious to chronicle all these abortive schemes, and it must suffice to say that whether attempted by Bill or by-law the curriculum did not until this present year become an accomplished fact. The final verdict of the *C. & D.* on this "little Bill" was amusingly given in an article of June 27, 1891, purporting to be a report of a coroner's inquest on a case of "alleged infanticide." The jury's verdict was that "deceased was of such insignificance that it was not worth while to charge anybody with its death."

In 1892 there appeared an article entitled "Leaves from a Receipt Book," which may be taken as the first step towards the production of the well-known "Pharmaceutical Formulas," which was brought out six years later, a long series of receipts, started by a competition on "Counter Practice," having prepared the way for it. In the August of this year (1892) the "Educational Number" attained its majority. The year 1893 was marked by several important events, the Chicago Exhibition, which called forth a valuable series of articles written by Mr. Peter MacEwan, who visited the exhibition for the purpose; the attempt of the veterinary surgeons to monopolise the title of "Veterinary Chemist," which the *C. & D.* was largely instrumental in defeating; and the Piper Case, which established our right to a monopoly of the sale of poisonous patents. In this year the *C. & D.* spoke out strongly against the "sinister development" of company pharmacy, which, unless controlled, it declared, meant the ultimate ruin of pharmacy proper. Mr. Boot (now Sir Jesse Boot, Bart.), who at this time had control of but eighteen shops, defended his company in a vigorous letter, but made no attempt to combat the assertion so far as the practice of pharmacy by retail chemists was concerned. In 1896 the Proprietary Articles Trade Association was formed, mainly at the instance of "Mr. Glyn-Jones, a chemist in the East India Dock Road." It was, like all other forward movements, welcomed by the *C. & D.*, but made at first such little progress that at the end of six months only fifteen articles appeared on its list. In 1897 there was a strong fight with the Pharmaceutical Society over their proposed new by-laws, by which the examinations were stiffened and the fee for the Minor raised to ten guineas. It was the latter change that the *C. & D.* denounced, declaring it to be "a more iniquitous demand than has ever been made in the history of pharmacy." "So far [the Editor proceeded] from benefiting by the Society without paying anything towards it, candidates not only pay for what the Society does for them, but for a great deal of what it does for itself."

In 1898 a new edition of the British Pharmacopœia was issued, and occasioned a long series of articles upon it by some of the leading pharmacists of the day, as well as a number of critical editorials. The Pharmacy Act of the year was also criticised, but without undue bias. The Poisonous Substances Bill, on the other hand, was most strenuously opposed, both in the columns of the paper and by means of a circular letter addressed to every member of Parliament. The Society was equally opposed to it, though not equally active, the ex-President, indeed, declaring that they wanted no help from a "trade journal." In this year the Spectacle-Makers' Company, moved by the fact that many chemists had adopted the suggestion made by the *C. & D.* twenty years before to make a side-line of optics, asked for the co-operation of the Pharmaceutical Society in promoting a movement for the proper qualification of opticians. The Council, with characteristic apathy, declined, but the *C. & D.* took up the invitation, and Dr. Trentham Maw, a liveryman of the company, was chosen to represent chemists on the Committee formed for the purpose. During this decade the paper, "trade journal" as it was, had grown enormously. It has never stood higher in influence than

it did when in the summer of 1899 Mr. A. C. Wootton retired from the editorship. His retirement did not, it is true, prove such a loss as it threatened to be, for he continued to contribute to its pages, and was soon, as "Xrayser," to become a power second only to the Editor himself. Mr. Peter MacEwan, who succeeded him in the chair, had, as we have seen, been for years second in command, and was to prove himself admirably qualified for the chief place.

Fifth Decade.

Mr. MacEwan's accession to the editorship did not materially affect the character or policy of the paper. There was, indeed, little room for improvement in either. The late Editor had been in office for thirty-two years; his successor had the highest opinion of his abilities and a strong personal friendship for him, and was wise enough to content himself with carrying on his work upon the same lines. All the old features were retained, and the value of most of them was heightened. Perhaps the "Scientific Progress" section may be regarded as Mr. MacEwan's chief alteration, the idea being to make the journal meet the requirements of every class of readers. Greater scope was given to the artistic talent of Mr. Fred Reynolds, the most versatile and accomplished of the *C. & D.* artists, though a recent successor may have equalled him in pure fun and comic suggestiveness. Mr. Reynolds, however, excelled in technical skill as well as in the range of his talent. His series illustrating the Pharmaceutical Aviary and Fauna, with the larger cartoons that followed, were his greatest achievements, and the descriptions appended to them were almost as good as the pictures. The portrait of the "Pata Bird" may be cited as typical of the first series; in no sense a caricature, it was nevertheless a criticism as well as a likeness; it recalled Artemus Ward's remark that the American eagle as usually represented looks as if "its vittles didn't sit easy on its little stummick," and the description lent colour to the drawing. The only new literary feature of the paper in the first years of Mr. MacEwan's editorship was the page of "Observations and Reflections" by Mr. Wootton. Dealing at first mainly with trade matters, these notes assumed a more general character, until they developed into little essays on every subject directly or remotely connected with pharmacy or its allied activities. They were, by turns, practical, historical, philological, scientific, ethical: in fact, "Xrayser" might have adopted the title of Professor of Things in General, in succession to the famous Diogenes Teufelsdröckh. He was, indeed, never cynical or censorious, but always genial, urbane, sympathetic; and though he sometimes provoked criticism he was rarely found in the wrong in any opinion he had advanced. His competence for the rôle he had assumed was shown in his well-known "Chronicles of Pharmacy," a work which grew out of his studies for these "Observations," and realised an early ambition.

THE PATA BIRD.

This young bird, which has a good lot of Welsh game-cock about it, is never happy unless it is saying things about the other birds, and trying to get them all to caw together and to secure the best seed. It especially tries to help the weak and thin birds. It will not touch food itself unless it is stamped with the letters "P.A.T.A." it has beautiful black glossy feathers on its head and neck. It knows all about figures and things, and can knock any other bird out in no time, because it caws so beautifully. It is known all over the country because it is such a strong flier. Unkind, rude birds have nicknamed it the "Svengali" bird, because it tribbles so. The store-bird is its greatest enemy, and it has been known to fly at it and peck it dreadfully, but lately it has kept its eye on the analytical birds, and tears to pieces points of law with them and legal birds. It now has a square perch in the centre of the aviary, and is a terror to the older birds round it because of its daring flights.

As regards policy, Mr. MacEwan, like his predecessor, was a fearless and constructive critic of the Pharmaceutical Council and its proceedings, but his criticism was somewhat milder in tone. Probably there was less occasion for it, the Council having to some extent acquired wisdom with the accession of young blood. Its organ was, however, as jealous as ever of its rival. In 1900, when Mr. Wootton became a candidate for the Council, it declared in effect that for all the evils that had befallen the Society during the previous forty years the *C. & D.*, which for thirty of them had been under his direction, was responsible, the inference being that he was the chief culprit. The answer of the Society's members to this was to return Mr. Wootton third on the poll. The political interest of this decade gathers round the Pharmacy Bills promoted by the Council and the Government Act they occasioned, which became the Poisons and Pharmacy Act, 1908. The discussion of these various attempts at legislation was left mainly to correspondents and to "Xrayser," but the Editor added articles directing and summing up the criticism. It is impossible to go fully into the story here. Suffice it to say that in February 1906, as a result of previous proposals, a Government Bill was introduced into the House of Commons by Mr. Winfrey (now Sir Richard Winfrey), with the approval of the Council, and after various fortunes and misfortunes it had to give place to a measure entitled the Poisons and Pharmacy Bill, presented to the House of Lords by the Earl of Crewe in February 1908. Neither Bill was very enthusiastically welcomed by the trade or by its chief organ, the *C. & D.* "Xrayser" spoke of the Council's Bill as in effect a surrender, and of the "iniquities" of the other, which, however, he said, we were tacitly accepting as inevitable in March 1908, when it was "too late" for any effective opposition. The editorial comment upon the Act after it was passed was rather more favourable than some of its contributors' criticisms. It rightly took credit for such protection as the Act provided against company trading without qualified supervision by recalling its long advocacy of this, or rather of a more stringent reform, but took exception to the Agricultural Poisons section. In common with everybody else, the *C. & D.* regarded the clause empowering the Council to frame by-laws for the admission of outsiders without examination as permissive, and therefore harmless.

Little more need be said of this decade. The contents of the paper were, perhaps, better arranged and more condensed at its conclusion than at its beginning. There was more "news," and greater prominence was given to purely commercial matters, but in all essential respects it preserved its character and had become more, not less, influential.

Sixth Decade.

The events of the last ten years are among the most important that have occurred in our pharmaceutical history since 1868, and they are nowhere so fully chronicled as in the *C. & D.*, which has, moreover, done more than any other single source of influence to mould public opinion with regard to them. The chief event was the passing of the National Insurance Act. The progress of this measure through Parliament, the changes it underwent between its first introduction early in 1911 and its becoming law in the following year, were noted and commented upon week by week in the minutest detail, their significance being explained, and no opportunity being lost of urging the right of chemists to more consideration and better terms than Parliament was disposed to allow them. Mr. Peter MacEwan was one of the deputation that waited on Mr. Lloyd George to explain the chemists' position and show the necessity of separating dispensing from prescribing, and it was he who directed attention to

the systems in operation in Germany and Italy as a guide to ourselves in this new departure, one consequence of which was the mission to those countries of Mr. Glyn-Jones and Professor Greenish; and he was largely instrumental in arranging the opposition to the doctors in their final revolt against the dispensing clauses of the Act. What the *C. & D.* has done since the passing of the Act in the way of improving or trying to improve the chemists' position under it is too recent to need recapitulation here. Not less in value to the trade, in proportion to its intrinsic importance, was the opposition offered by the *C. & D.* to the assault upon the proprietary-medicine trade made by the medical profession under the guise of a Select Committee of the House of Commons. The meetings of the Committee were generally held on Thursday, and the special reports appeared in the *C. & D.* next morning. The full result of the inquiry thus made is not yet seen, but there is no doubt that the criticism of it by this paper did more than anything else (unless it were the proceedings of the Committee itself) to discredit it at the time. Another, though a less important, event was the Shops Act of 1912, which was received with

Cover of Summer Issue, 1915.

approval, though objection was taken to some of its provisions, and the anomalies which occurred in its application were severely criticised. The action of the Council in framing and forcing upon us "the unjust by-law" of the present year is the last event that calls for mention. The *C. & D.* from the first strenuously opposed it on the ground of principle and the essential interests of not the craft only, but pharmacy itself.

"Xrayser" was succeeded only a fortnight after Mr. Wootton's death by "Xrayser II.," whose identity has not yet been disclosed, but of whose fitness as a worthy successor there can be no doubt. The war conditions of the past five years have been a strain upon the production of the *C. & D.*, the evidence to outsiders being the reduced number of pages and inferior paper which the regulations of the Paper Controller occasioned. These conditions, however, are now happily changed, and the *C. & D.* is resuming its old size and style as rapidly as circumstances will permit. That it has a career of, if possible, greater usefulness before than behind it may safely be predicted, for there are still stormier days before us than any we have passed, in which the need of guidance and encouragement in pharmaceutical progress will be greater than ever.

British Association.

The annual meeting of the British Association for the Advancement of Science is being held at Bournemouth, the last meeting having taken place in 1916 at Newcastle. On September 9 Sir Charles A. Parsons, the President, delivered his address.

Engineering and the War.

This dealt mainly with the engineering developments that have taken place during the war. After giving some striking figures of the amount of ammunition used during the war—on the British front alone in France 170 million artillery rounds weighing nearly 5½ million tons were fired—the President referred to advances made in sound-ranging and listening devices which were employed in locating enemy mining operations on land and detecting enemy submarines at sea. A new form of hydrophone was developed from a study of the hearing apparatus of whales. Referring to the use of electricity during the war, the President said that municipal and company generating stations have been nearly doubled in capacity to meet the demand for munition works, steel works, and chemical works. Mention was made of the bore-hole scheme first brought forward in 1904, which was to sink a bore-hole twelve miles deep into the earth and in this way obtain valuable knowledge of the interior of the earth. The cost is estimated at five million pounds, and it would require eighty-five years to sink the shaft. Dealing with the research of the future, the lecturer foreshadowed the time when it might be discovered how to liberate instantaneously the energy in radium, which costs 2½ million times the energy of the same weight of trinitrotoluol.

Chemistry and the War.

Sir William Pope, Chairman of the Chemistry Section, in the course of an address on "Chemistry and the War," declared that Germany's pre-eminent position in regard to the manufacture of chemicals was the main influence which induced her to go to war. The German chemical factories produced material for the world, paid dividends, and were a source of national wealth. It was these factories, and especially the coal-tar colour factories, that produced the explosives and chemicals for the war, so that the British Empire paid for the German explosive factories, just as it paid for the factory at Gretna. But, whereas the German explosive factories could at once revert to their pre-war chemical activities, the vast installation at Gretna is practically a scrap heap. Our war-time factories had been put up so hurriedly that it had not been possible to organise them on such a basis that they would be useful for peace-time purposes immediately on the cessation of hostilities. While the German chemical industry was stronger now than before the war, our own is much in the same position as in pre-war days. One of the chief essentials to a modern army or navy is quinine; 97 per cent. of the world's quinine production came from the Dutch colony of Java, and its import into Europe was practically under German control. A large number of other essential pharmaceutical products, such as salicylic acid and salvarsan, and local anæsthetics, such as eucaine and novocain, were made almost entirely in Germany, and most of the fine photographic chemicals used in development and in the preparation of panchromatic plates also were made almost exclusively in Germany. Materials necessary to the manufacture of special steels, such as tungsten and the like, came to us through Germany. By this control Germany was enabled to throw her enemies into confusion by a purely economic method at the outbreak of war.

The War Office has issued a statement in refutation of allegations that horses sold by the Army authorities are likely to be suffering from contagious diseases. Between November 1918 and April 1919 only thirty-two animals out of the 105,000 sold were subsequently suspected, and in practically all these cases several months had elapsed between the sale and the outbreak of disease.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Kent.—The first meeting of the newly elected Pharmaceutical Committee for the county of Kent was held at 17 Bloomsbury Square, London, W.C., on September 3. There were present: Messrs. A. F. Corfe, J. H. Cuff, A. Deans, D. T. Evans, E. W. Ewell, A. E. Hobbs, A. W. Hudson, J. E. Hudson, F. C. Jones, H. C. H. Oliver, A. E. Silverthorn, C. J. Taylor, and the Secretary (Mr. J. E. French). The Secretary declared the following members elected to the Committee: A. F. Corfe (Maidstone), J. H. Cuff (Hythe), A. Deans (Maidstone), E. W. Ewell (Dover), D. T. Evans (Margate), A. E. Hobbs (Tunbridge Wells), A. W. Hudson (Cranbrook), J. E. Hudson (Sheerness-on-Sea), F. C. Jones (Folkestone), F. J Oliver (Maidstone), H. C. H. Oliver (West Malling), A. E. Silverthorn (Dover), C. J. Taylor (Cheriton), and L. A. West (Dartford). The Committee elected the following officers: *Chairman*, Mr. A. E. Hobbs, J.P.; *Vice-Chairman*, Mr. J. H. Cuff; *Treasurer*, Mr. A. F. Corfe; *Secretary*, Mr. J. E. French. Messrs. A. E. Hobbs, J. H. Cuff, and J. E. French were elected as representatives on the Pharmaceutical Service Sub-Committee. The Committee had under consideration the question of the supply of bottles and the Insurance Committee's circular letter concerning supply of bandages, late receipt of prescriptions, and "Rep. Mist."

London.—A meeting of the London Pharmaceutical Committee was held on September 9, Mr. A. J. Wing (Chairman) in the chair. At the instance of Mr. Shirtliff a discussion took place on the new Shops (Early Closing) Bill and its probable effect on the pharmaceutical service. The question was adjourned until the next meeting, and in the meantime the Secretary was instructed to send to each member of the Committee a copy of the Shops Bill and the Hours of Employment (No. 2) Bill. In connection with the report of the Central Checking Bureau on the prescriptions dispensed during February, March, and April, the Secretary was instructed to write to the Bureau asking for information regarding the unusually high percentage of error in the pricing of the March accounts. The Secretary reported that the number of prescriptions dispensed during the month of May 1919 was 328,758, at a cost of 10,169*l.* 11*s.* 8*d.* and an average cost per prescription of 7.42*d.* A letter had been received from the Insurance Committee submitting copies of communications which had been received from the Panel Committee relative to the difficulties alleged to have been experienced by panel doctors in dispensing. These communications are replies from panel doctors to the Panel Committee's notorious circular asking for complaints against the Pharmaceutical Service (*C. & D.*, July 12, p. 59). The question of the discontinuance of the term "Rep. Mist." was discussed, and it was decided to communicate with the Pharmaceutical Society drawing attention to the wording of the Insurance Committee's Circular (S. 22), issued in October 1916, and to Article 11 (i) of the Medical Benefit Regulations, 1916. The Secretary was also instructed to urge the Pharmaceutical Society to take the matter up with the appropriate authorities. Reference was made to the question of the terms of contract for the year 1920 and the maintenance of an adequate pharmaceutical service. In the discussions several members were of opinion that a conference of representatives of local Associations should be held at an early date. It was ultimately decided to send a letter to the Pharmaceutical Society suggesting that a conference be held accordingly.

Sheffield.—A meeting of the Pharmaceutical Committee was held on September 3, Mr. J. Chadwick in the chair. The Chairman reported on a conference of a Sub-Committee of the Panel Committee and the Committee's Emergency Committee on the hours of dispensing, which subject is still under consideration by the doctors. It was decided to support the fixing of 7 o'clock as the closing hour. The congratulations of the Committee are to be tendered to Mr. J. Gilbert Jackson on his success at the recent election of the Local Associations Executive Committee. A complaint was dealt with from a panel chemist at receiving the monthly price list six weeks after the commencement of the month, making it impossible to charge the proper amount as deposit on bottles. It was decided to ask the Pharmaceutical Society to take the matter up. The signing of insurance prescriptions by other than panel doctors was again considered. Two medical men having signed prescriptions whose names do not appear on the panel list, it transpired that one had been added to the panel, the other was unauthorised. It was decided to ask the Insurance Committee to supply each chemist with the additions and deletions to the panel since the publication of the 1919 list. Three checking reports were considered satisfactory. Messrs. J. Chadwick, J. A. Johnson, and E. Preston were appointed as the Pharmaceutical Service Committee, Messrs. J. Chadwick, G. R. Airey, J. A. Johnson, and E. Preston, with the Secretary, as *ex-officio* member, as the Emergency Committee.

Walsall.—The Insurance Committee have investigated a complaint that a doctor on the panel charged a panel patient for medical treatment. It was suggested by the Sub-committee that a sum of 1*l.* 18*s.* 6*d.* be deducted from the doctor's panel fees, and that he be requested to withdraw an unpaid account for 3*l.* 16*s.*, but the recommendation was referred back for further consideration, as the Committee were not satisfied that the sums represented the total amount which the panel patient had paid to the doctor.

SCOTLAND.

Drug Accounts Committee.—The following comparative statement, for the half-year ended June 1919, and the corresponding period in the four preceding years, has been issued by the Central Checking Bureau, Glasgow. It refers to the whole of Scotland:

		No. of Forms Allowed	Total Value	Average Price per Form
1919	...	1,071,733	54,543*l.* 0*s.* 4½*d.*	12.21*d.*
1918	...	932,941	43,948*l.* 8*s.* 9½*d.*	11.30*d.*
1917	...	991,381	39,553*l.* 8*s.* 9½*d.*	9.54*d.*
1916	...	1,040,288	45,210*l.* 17*s.* 9½*d.*	10.43*d.*
1915	...	1,233,567	50,208*l.* 17*s.* 2½*d.*	9.61*d.*

Dundee.—By eleven votes to six, the burgh Insurance Committee, at a recent meeting, passed a resolution in favour of the abolition of the present system of medical attendance, and the substitution of "a complete and comprehensive State medical service" available to all classes.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Thursday, September 18.

London Chemists' Golfing Society. Enfield Golf Course. Open meeting. Members requiring lunch at the Club House must communicate promptly with Mr. G. T. Deeth, 40 Cleveland Park Avenue, Walthamstow, E. 17.

NORTH WALES PHARMACISTS.—A mass meeting will be held at the Queen's Hotel, Rhyl, on September 24, at 3.30 P.M. Speaker: Sir William Glyn-Jones. Mr. W. P. Evans (Liverpool) will preside.

WESTERN PHARMACISTS' ASSOCIATION (OF LONDON).—The annual reunion will be held on October 2, at Pinoli's Restaurant. There will be a reception by the President at 7 P.M., followed by supper, whist drive, and concert. Morning dress. Tickets (6*s.* each) may be obtained from any member of the Committee.

SOUTH WALES AND MONMOUTHSHIRE LOCAL PHARMACISTS' ASSOCIATIONS FEDERATION.—The next meeting will be held at Haverfordwest on October 1.

German Drug and Chemical Markets.

A well-known firm of Hamburg drug merchants, in their market report dated September 1, state that they recently expressed the opinion that a number of imported articles appeared to have reached their future price level, and that it was probable that in domestic drugs a further increase in price would take place. In the meantime this assumption has become a fact. In addition to the well-known causes for this increase, such as repeated strikes, increased tariffs, increase in wages, and the shortage of coal, the depreciation of the German mark abroad prevents any decrease in prices, which is so necessary for goods required in Germany. The list of articles which show a decrease in price is very limited, and is confined only to a few imported goods, whereas the general tendency with most articles—particularly those of German manufacture—appears to denote an increase in prices, and thereby seriously imperils Germany's chances of competing successfully. Their former warning not to place undue hope in the removal of the blockade has proved to be correct. They quote the following prices (per kilo.):

Acid, Citric, has increased to m.45; supplies are extremely short.

Acid, Salicylic, has increased by leaps to m.18.50, and is getting dearer. A yellowish make, suitable for use as a preservative, can be supplied at m.15. The price on the London market (parity) is about m.27 per kilo.

Acid, Tartaric.—Competition, which is scarcely likely to be of long duration, has upset prices. Nevertheless, and in spite of the anything but summer-like weather, there is a brisk demand at m.21 for crystals and m.22 for powder. Orders from abroad are plentiful, and an increase appears likely.

Acid, Benzoic.—Very small amounts are offered by makers. It is advisable to purchase stocks at m.21, as an increase seems imminent.

Anise Oil (Star) has increased suddenly to m.90; this is due less to any greater demand, but rather to the depreciated currency.

Benzaldehyde, almost free from chlorine for foodstuffs, is sold in small quantities at m.40 and larger quantities at m.35.

Caffeine, Pure.—The factories which do not hold any large stocks have increased the price, which now exceeds m.295, asked by dealers. On the other hand, caffeine sodio-benzoate and caffeine sodio-salicylate are very cheap, being offered at m.180.

Clove Oil.—Genuine is now cheaper at m.180. Artificial oil has, therefore, been reduced to m.120.

Coumarin has again been raised by the factories, and is quoted by dealers at m.290. There is a brisk demand from abroad.

Cream of Tartar (99 to 100 per cent.) is in great demand at m.23, and is likely to increase.

Glycerin (white, sp. gr. 1.23 (28°)), at m.14.50 per kilo., net cash, in original packages, exclusive of containers, is exciting interest; contracts for 2,500 to 5,000 kg. are offered at m.13.50 per kg. net cash, exclusive of containers. The combine of the English refiners is likely to bring about a considerable consolidation of the market.

Heliotropin has increased to m.325 per kilo., and is very scarce.

Menthol has to be imported, and owing to the depreciation of the German currency would cost about m.450; spot has advanced to m.370, while recryst. cannot be obtained under m.390, and is very scarce.

Milk-sugar.—Pure Ph. G.V. has been readily taken up at m.14 per kilo., and shows signs of becoming scarce.

Saponin, Purified, in conjunction with the decrease in price for quillaja, has dropped to m.175, and is in demand at that figure. Sales have suffered in consequence of the cold and wet weather.

Vanillin is in considerable demand at m.720 per kilo.; cheaper offers are no longer forthcoming.

A report on the German chemical market states that owing to the uncertain position consumers are reserved, and the majority of the works are only covering their most urgent requirements. This reserve has caused a considerable decline in prices for those products which can be imported and of which quantities have already arrived, such as tartaric products (cream of tartar, tartaric acid), caustic soda, etc. On the other hand, the German works were obliged to make a further advance owing to the scarcity of raw materials and fuel, and demands for higher wages. This applies notably to bromine salts, barium chloride, antichlor., etc., for which there is strong home demand. The prices of all export products have risen considerably above the home works' quotations, with the consequence that in the open market potash permanganate is considerably above the works' price, and is very scarce, as only limited quantities can be produced. The following are some of the market quotations: Potash and other alkali products are very scarce; for 96/98 per cent. potash over m.450 is paid, and for 80/84 per cent. m.320 per 100 kilos. Silver nitrate is offered at m.450. The trade does not take much notice of the official silver quotations. Owing to the advance of manufacturers' prices of bromide salts the market price of bromide potash also increased, and is offered at m.8.50 per kilo., while sodium bromide was m.8.40, and ammonium was neglected at m.7.30. Calcined soda was offered at m.45 per 100 kilos. Borax and boric acid are neglected at m.8.50 and m.12.50 per kilo. respectively. The position of water-glass is curious; the producing costs owing to the great scarcity of sulphur and the higher prices of sulphate are considerably higher than they have been up to the present. On the other hand, the price of 36/38 per cent. unfiltered has declined from m.43 to m.32 per 100 kilos. Evidently large quantities of potash permanganate are being exported, which accounts for a great scarcity of this product, the price having risen to m.20 per kilo. There was a demand for myrbane oil at about m.6 per kilo. Formic acid, 85-per-cent. technical, was about m.265 per 100 kilos.; 50-per-cent., chemically pure, m.270. Oxalic acid cryst. is offered at m.290 and powdered at m.300 per 100 kilos. Owing to the great demand for preserving purposes soda benzoate improved in price, and m.18 per kilo. was paid for this, as well as for benzoic acid.

Import and Export Regulations

Trade with Arabia.

The Board of Trade have issued a general licence under the Trading with the Enemy legislation authorising, with certain reservations, the resumption of trade with Arabia.

Chilean Customs and Post Parcels.

The Chilean Customs regulations require that, in future, every parcel sent from this country to Chile, whatever the value of its contents, shall be accompanied by an invoice certified by a Chilean Consul. Neglect to furnish such an invoice will lead to a heavy penalty on the addressee. It is understood that the invoices in respect of parcels of which the contents are less than 5*l.* in value will be certified at the Consulates free of charge.

Trade with the Baltic.

The Board of Trade have issued particulars of the scheme to finance British trade with the Baltic provinces and other countries. The Government are prepared from September 9, through their Export Credits Department, at 10 Basinghall Street, E.C. 2, to consider applications for advances up to 80 per cent. of the cost of the goods, plus freight and insurance, for goods sold to Finland, the Baltic Provinces (Latvia, Esthonia, and Lithuania), Poland, Czecho-Slovakia, Jugo-Slavia, and the areas in Russia to which the scheme for insurance against abnormal commercial risks applies. The advances are subject to certain conditions, while the Department will consider proposals for a deposit of produce or securities instead of currency. Mr. L. A. Davis, deputy foreign manager of Barclays Bank, Ltd., has been appointed manager of the Department.

Flux for Soldering Aluminium.—Lithium chloride, 15 parts; potassium chloride, 45 parts; sodium chloride, 30 parts; potassium fluoride, 7 parts; sodium bisulphate, 3 parts.

Chinese Opium Cultivation.—The Kweiyang correspondent of the "North China Daily News" (says a Reuter telegram from Shanghai) states that the Provincial Government of Kweichow has publicly authorised the cultivation of opium for this year. Last year the revenue from opium amounted to $1,700,000. It is believed that the action of the Provincial Government is partly in deliberate defiance of the recent British inquiries regarding the renewed cultivation of opium throughout China, in which the Province of Kweichow was specially mentioned. The correspondent gives a vivid account of the demoralising effects of the revival.

Trade Report.

42 Cannon Street, E.C. 4, Sept. 11, 10 a.m.

BUSINESS in many directions shows an improvement this week, with the bulk of the fluctuations again favouring buyers. The delay in obtaining delivery of imported goods ex ship or dock remains as acute as ever, and exportation is also attended with considerable difficulties, "shut outs" being frequent. In pharmaceutical chemicals little business is passing, and the undertone generally speaking continues easy, this applying to phenacetin and phenazone. Milk-sugar, benzonaphthol, quinine ethyl carb., and sulphonal are cheaper; heliotropin is dearer, and vanillin firm. Salicylates are 5c. per lb. dearer in America on makers' account, and spot prices are firm and unchanged, as are bromides. Quinine is 6*d*. per oz. dearer in makers' hands, but the position is unsettled and puzzling pending the decontrol by Government. Essential oils of lemon, bergamot, and star anise are easier. French lavender is dearer, and likely to be scarce; otto is freely offered, and American peppermint is in more inquiry in view of the rise in primary markets. Caraway is weaker following the seed. Among drugs, Tinnevelly senna is dearer; senega is very firm, and the scarcity of ergot is quite as acute. Cod-liver oil is in more demand for export, and dearer. Cape aloes has been dealt in at higher rates, but Curaçao is easier owing to fair-sized arrivals. Menthol is firmer, but the oil is unchanged. Castor oil is firm, and linseed oil is lower. Shellac has declined about 10*s*. per cwt.

Higher	Firmer	Easier	Lower
Amyl acetate	Aloes (Cape)	Aloes (Curaçao)	Arnica flowers
Antimony	Camphor (Jp. ref.)	Anise oil (star)	Bromstyrol
Cinnamon	Menthol	Caraway oil	Cajuput oil
Cod liver oil	Peppermint oil (Amer.)	Caraway-seed	Canary-seed
Heliotropin		Farina (Jp.)	Chamomiles
Lavender oil		Gentian	Hemp-seed
Quinine		Hen-yolk	Linseed oil
Senna (Tinn.)		Juniper-berry oil	Milk-sugar
		Lemon oil	Musk ambrette
		Phenacetin	Palm oil
		Phenazone	Quinine ethyl carb.
		Wax, veget. (Jp.)	Shellac
			Sulphonal

Cablegram.

NEW YORK, September 10.—Business is fair. Mexican sarsaparilla is lower at 48c. per lb. Copaiba is also lower at 57½c. per lb. Peppermint oil in tins has advanced to $7.25, and the following are also 5c. per lb. higher: acetanilide at 41c., salicylic acid at 45c., sodium salicylate at 50c., salol at 85c., and methyl salicylate at 55c. per lb.

ALBUMEN.—Chinese egg is quiet at 5*s*. per lb. on the spot and 4*s*. 11*d*. c.i.f. for August-October shipment.

ALMONDS are firm both on spot and forward. The high prices asked for new crop Jordans and Valencias prevent business, and sellers do not seem anxious to operate at the moment.

ALOES.—Curaçao in cases has arrived in fair quantity and prices are easier inclined, fair liver being obtainable at 75*s*. per cwt. Cape is firmer, from 56*s*. to 57*s*. 6*d*. having been paid for good hard bright, 54*s*. for hard, slightly dull, and 50*s*. for ordinary. Socotrine in kegs is in small supply, 180*s*. being wanted for good hard.

AMMON. SULPHO-CYANIDE is rather dearer at 1*s*. 10*d*. per lb.

ANISE OIL, STAR, is quiet and the turn easier, "Red Ship" brand offering at 5*s*. 1½*d*. per lb.

ANTIMONY.—There has been a substantial revision of prices for English regulus, as notified by the two chief firms of refiners, prices now standing at 45*l*. for good common brands and 48*l*. per ton for the "Star" brand. This may possibly be due to decreasing Government stocks, which are now being disposed of by the two firms of refiners referred to. The fact, too, deserves notice that foreign refined is hardly obtainable in the open market, the market being chiefly nominal at 44*l*. to 45*l*. There is very little interest in Chinese crude, of which, however, but little is available, the price being about 35*l*. Supplies in Germany are scarce, except perhaps in the occupied territories, and prices there are very high.

ARNICA FLOWERS are offered at the lower rate of 4*s*. 6*d*. per lb.

ASPIRIN is unchanged at from 4*s*. 6*d*. to 5*s*. per lb., as to quantity. Occasional licences to import from one of the Allied countries are being granted.

BENZOIN.—The landings in London during August were 139 packages and the deliveries 332 packages, leaving a stock at the end of August of 2,389 packages compared with 958 at the end of August 1918.

BENZONAPHTHOL is rather lower, offering at from 26*s*. to 27*s*. on the spot, and at 18*s*. for forward delivery.

BISMUTH.—American manufacturers announce a decline in the price of metal to a basis of $2.97 per lb. The London quotation for metal is unchanged at 12*s*. 6*d*.

BROMIDES are unchanged, potash crystals offering at from 4*s*. to 4*s*. 3*d*. and granular at 3*s*. 9*d*. to 4*s*.; sodium is 2*s*. 8*d*. and ammonium is 3*s*. 2*d*. No licences are required to import the sodium and ammonium salts, but potash requires a licence, and in view of the spot scarcity they should not be difficult to secure.

BROMSTYROL is offered at the cheaper rate of 40*s*. per lb.

CAJUPUT OIL is cheaper, fair native offering at 3*s*. 10*d*. per lb. on the spot.

CALUMBA.—The landings in London during August amounted to 502 bags and the deliveries to 238 bags, leaving a stock of 2,444 bags against 134 bags at the end of August 1918; 289 bags have arrived from Bombay this week.

CAMPHOR (REFINED).—Japanese slabs are firmer and scarce, with spot sales at 14*s*. 3*d*. to 14*s*. 6*d*. per lb., and to arrive 15*s*. 10½*d*. to 16*s*. c.i.f. is quoted.

CANARY-SEED is lower, common to good Mogador offering at from 162*s*. to 165*s*. landed terms, and Spanish at 300*s*.

CARAWAY OIL is easier at about 19*s*. per lb. in view of the lower prices for seed.

CARAWAY-SEED.—Dutch is easier at 75*s*. per cwt. on the spot. The recent decline is due to the removal of the export restrictions in Holland, from which country much lower offers were made. At the decline a good business has been done.

CASTOR OIL remains firm, Hull make of pharmaceutical quality in ton lots offering in barrels at 104*l*., firsts at 101*l*., and seconds at 99*l*. per ton net, ex works.

CHAMOMILES.—Small arrivals of the new crop are taking place, and prices of Belgian are somewhat lower than when last quoted, fair white offering at about 200*s*. per cwt. to arrive and French at about the same figure.

CLOVES are firm, with spot sales of fair Zanzibar at 1*s*. 9*d*. per lb.

COCAINE is steady at about 24*s*. per oz. for hydrochloride on the spot; supplies are, however, only small.

COD-LIVER OIL has been in much more inquiry of late both for the Colonies and the Continent, and the higher prices of from 505*s*. to 510*s*. per barrel c.i.f. are quoted for finest new Norwegian oil. Export licences are still required for shipment from Norway, and stocks there are by no means excessive. Spot sales of finest Norwegian medicinal oil have been made at 465*s*. per barrel.

CREAM OF TARTAR is very firm at 240*s*. per cwt. for 99 to 100 per cent. powder, with a shade under this figure accepted in certain quarters.

ERGOT.—Only occasional and small lots arrive from Spain, the spot value being from 14*s*. to 14*s*. 6*d*., and to arrive 12*s*. per lb. is quoted.

FARINA.—Japanese is quiet, with spot sellers of No. 1 at 46*s*. per cwt. and September-November shipment at 41*s*. 6*d*. c.i.f.; sweet on the spot is 38*s*., and September-November shipment 36*s*. c.i.f.

GALLS.—Persian blue are firm at from 125*s*. to 130*s*., and green at 115*s*. to 120*s*. on the spot; white is not offered.

GENTIAN is very slow of sale, and French is offered at the cheaper rate of 50*s*. on the spot, and lower to arrive.

GLYCERIN.—The recent rise in double-distilled, s.g. 1.260, makes the price in 56-lb. tins in cases 130*s*. 6*d*., and 28-lb. tins in cases 135*s*. 6*d*. per cwt. in lots of 1 ton and under 5 tons.

HELIOTROPIN is rather dearer at 26s. per lb. for crystals on the spot.

HEMP-SEED is quoted at cheaper rates for shipments near at hand.

HEN-YOLK is lower, with sellers of Chinese 2-per-cent. boric acid at 185s. per cwt. on the spot, afloat at 170s., and July-September shipment at 160s. c.i.f. Dried whole on the spot is 3s. to 3s. 3d. per lb. Dried yolk is 2s. per lb. on the spot, and 1s. 10d. c.i.f. for July-September shipment.

HONEY is in fair demand, Jamaican being offered at from 75s. to 82s. 6d., St. Lucia in cases at 72s. 6d., Cuban at from 70s. to 75s., Australian at from 65s. to 67s. 6d., and Californian at 90s. per cwt.

HYDRASTIS is offered at 30s. per lb. on the spot.

INSECT-FLOWERS.—Good Dalmatian are about steady at 230s. per cwt., and for best insect powder (London ground) up to 2s. 6d. per lb. is quoted. We notice the arrival of a vessel from Trieste this week.

IPECACUANHA remains firm, and fair Matto Grosso is worth fully 14s. per lb., as the bulk of the stock is ordinary thin grey. According to the London drug statistics the landings in London during August were 40 bales East Indian only; the deliveries were 45 Matto Grosso, 2 Minas, and 3 East Indian. The stock on August 31, 1919, was 96 Matto Grosso, 24 Minas, 10 Cartagena, and 84 East Indian, or a total of 214 packages, compared with a total of 783 packages at the end of August 1918. At that period the price of fair Matto Grosso was 11s., whereas it is now 14s. per lb. About 70 packages have arrived in London this week from Brazil.

JUNIPER-BERRY OIL.—B.P. quality is easier at 24s. 6d. per lb.

LAVENDER OIL.—The crop of French flowers has proved to be rather larger than the average, but in spite of the increased production the prices remain very high, and the hitherto unknown rate of fr.80 per 100 kilos. was paid. Later the harvesters who went higher up the Alps secured a greater quantity of flowers, and the price fell. Contracts for oil have been made at from fr.100 to fr.130 per kilo., according to ester percentage; prices are likely to be uncertain until the next annual lavender-oil market at Digne. There appears to be very little oil left over from last year, and buyers do not appear able to satisfy their customers' wants, even though the price asked may be excessive. The price of new crop works out at about the equivalent of 48s. per lb. in the South of France.

LEMON OIL is again in easier tendency, offering at 4s. 7d. per lb. c.i.f., the spot value being 5s.

LINSEED.—The International Institute of Agriculture of Rome reports that in almost all the more important countries producing linseed a great decrease appears this year as compared with the yields of former years. The United States crop is estimated at 2.6 million quintals, or 69.6 per cent. of the 1918 figure, and 71.9 per cent. of the average for the previous five years. Still greater is the decrease in the yield for India, where the estimate stands at 2.3 million quintals, or 44.5 per cent. of the 1918 figure, and 48.8 per cent. of the average for the five years 1913 to 1917. In Canada the yield of linseed is estimated at 2.1 million quintals, or 135 per cent. of the 1918 crop, and 82.5 per cent. of the five-year average.

LIQUORICE-ROOT.—Cut decorticated on the spot continues very scarce, and to arrive from 190s. to 200s. per cwt. is quoted.

LYCOPODIUM is quoted at from 6s. 6d. to 6s. 9d. per lb. on the spot.

MENTHOL is firmer, with spot sales of Kobayashi-Suzuki at 36s. 6d. to 37s. 6d. per lb. and buyers at the higher figure.

METHYL SALICYLATE is still obtainable at from 3s. 3d. to 3s. 6d. per lb., with a tendency to firmness in view of the American advance.

MILK-SUGAR is cheaper, finest Dutch offering at 215s. per cwt. in cases on the spot.

MINT OIL.—Japanese is steady, with spot sales of Kobayashi-Suzuki at 7s. 3d. per lb.

MUSK AMBRETTE is cheaper, importers offering at 290s. per lb. net.

NUTMEGS are steady, the sales including West Indian at 1s. 1d. per lb. for 110's. Stocks of the larger sizes are small.

NUX VOMICA has shown more activity, with a good business on export account. Calcutta is quoted at from 28s. to 29s., and Bombay 40s. to 45s. per cwt. on the spot.

OILS, FIXED.—*Linseed* is lower at 95s. to 100s. net on the spot, naked, ex mill. Hull (spot) is also lower at 95s. spot, to April delivery. *Rape* is unaltered at 100s. for crude and 108s. for refined. *Cottonseed* is dearer at 105s. for crude and at 110s. for refined, naked, ex mill. Refined *Soya* is 110s. (maximum price), afloat is 83s., and September-November shipment 89s. per cwt. c.i.f. Chinese *Wood* oil is unchanged at 125s., and to arrive 120s. c.i.f. is quoted. Lagos *Palm* oil is cheaper at 89s. 6d., and softs at 89s. in Liverpool.

OPIUM is decidedly firmer in primary markets on account of the fact that the last crop of Turkey opium is anticipated to yield rather less than 3,000 cases. The London spot prices are unchanged, 11½-per-cent. offering at from 19s. to 20s. per lb. Persian remains nominal at about 50s. per lb. for 10-per-cent. This market relies on export demand only, and with the great disparity in price between it and Turkish gum it cannot compete for legitimate manufacturing purposes. A Smyrna advice, dated August 25, states that "the position of opium keeps steady, with large purchases for the U.S.A. at 14s. 6d. to 18s. per lb., as to quality. During the week ending August 23 some 66 cases changed hands, and to-day another lot of 30 cases have been bought at 15s. 6d. by Keun Lavino & Co. These buyers are still on the market, but for the present sellers have withdrawn, as telegrams have been received from Constantinople reporting higher prices, and a large demand for Continental consuming markets. The news we get from the interior is not at all satisfactory. The crop has all been harvested, and according to our sellers it does not amount to 3,000 cases. If this brisk demand continues we cannot but predict a higher market in the very near future."

Interest in the New York market (says the "Oil, Paint, and Drug Reporter") centred in the arrival of 345 cases, total weight 62,100 lb., the majority of which came consigned to the Bulgarian Consul in the United States. This recalled the fact that an official representing the Serbian Government in the United States recently stated that the Bulgarians had stolen large quantities of opium from the Serbians in Macedonia. The official statement was as follows, and was occasioned by reports that 15,000 kilos. of opium had been placed on sale in New York by the Bulgarian Government agents:

"The act is the most impudent and cynical enemy act of the whole war," according to Dr. Veyslay M. Yavanovitch, head of the official information bureau of the kingdom of Serbia, Croates, and Slovenes. "It represents the sale of goods stolen in Serbia during the three years' occupation of that country by Bulgarian troops."

He further stated that Bulgaria would use the funds derived from the sale of the opium to establish credit in America, and thus enable Bulgaria to make purchases which otherwise they would not do under the existing rate of exchange of Bulgarian currency.

OTTO OF ROSE is freely offered to come forward at from 50s. to 55s. per Turkish oz. for the usual brands of Anatolian and Bulgarian.

PEPPER is quiet but steady, with sales of fair *black* Singapore on the spot at 1s. 0½d. per lb. Sales to arrive include September-November and October-December shipment at 10½d. c.i.f. London, closing buyers. Fair Tellicherry is 1s. 2½d. and Aleppy 11½d. per lb. on the spot. *White* pepper is steady, with spot sellers of Singapore at 1s. 4½d., and for Muntok 1s. 4⅜d. to 1s. 4½d. has been paid. To arrive, September-November shipment has sellers at 1s. 3¾d. per lb. c.i.f. London, delivered weight.

PEPPERMINT OIL.—There has been an improved inquiry for American tin oil this week in London, but in view of the small stocks it is difficult to satisfy; the spot values of good brands of tin oil are from 38s. to 40s. Holders of H.G.H. now feel constrained to ask 52s. 6d.

PHENACETIN is easier at from 19s. to 20s. per lb. for spot supplies.

PHENAZONE is slightly easier at from 25s. 6d. to 26s. 6d. per lb. on the spot, and for forward delivery these prices can be eased.

PHENOLPHTHALEIN is obtainable at about 20s. per lb. on the spot.

PIMENTO is firm, with spot sales at 5½d. per lb.

QUININE ETHYL CARBONATE is offered at the cheaper rate of 9s. per oz.

QUININE.—The position is dealt with editorially. Pending the removal of official control the market has been unsettled, and is likely to be so until the surplus stocks held by the Government are disposed of. Small lots in second-hands have been sold at from 3s. 2d. to 3s. 6d. per oz., and even more has been paid by needy buyers, but the aggregate amount of business done is very limited. The imports, exports, and re-exports of quinine and quinine salts from

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the United Kingdom during August and the eight months ended August 31 of the past three years were as follows:

	1917 Oz.	1918 Oz.	1919 Oz.
August imports... ...	674,182	75,264	496,656
Jan.-August imports ...	3,088,527	1,328,933	3,934,538
British exports (Aug.)	249,096	17,777	144,323
Do. (Jan.-Aug.)	1,148,434	270,237	977,654
Re-exports (August) ...	8,632	112,181	58,311
Do. (Jan.-Aug.)	79,000	1,066,592	1,543,032

RHUBARB.—About 20 cases have arrived during the past fortnight, chiefly flat High-dried. Bold round Canton is held for 10*s*., and for Chinese *Rhapontica* 1*s*. 9*d*. to 2*s*. is wanted. The landings in London during August were *nil* and the deliveries were 61 chests, leaving a stock of 43 chests at the end of August 1919, against 43 chests in August 1918.

SACCHARIN.—The imports of saccharin and similar substances into the United Kingdom during August and the eight months ended August 31 of the past three years are as follows:

	1917 Oz.	1918 Oz.	1919 Oz.
August imports	55,725	25 ,027	1,049
Jan.-August imports ...	323,348	1,617,228	1,062,066
Entered for home consumption (August)	27,982	163,883	21,019
Do. (Jan.-August)	300,727	1,312,176	230,725

SAFFRON.—Prospects do not point to any cheaper rates for some time to come. Finest Valencia is still 57*s*. 6*d*. on the spot.

SALICYLATES.—American makers (see cable) have advanced their prices by 5c., this including salol and methyl salicylate. On the spot, B.P. salicylic-acid powder is quoted at from 2*s*. 6*d*. to 2*s*. 9*d*., the latter price being for small lots. Soda salicylate is unchanged at from 3*s*. 6*d*. to 3*s*. 9*d*. for powder and 1*s*. per lb. extra for English crystals.

SALOL is unchanged at about 4*s*. 6*d*. per lb.

SALVARSAN.—Export licences have been refused on the ground that it is a synthetic compound.

SARSAPARILLA.—The landings in London during August amounted to 115 bales and the deliveries to 164 bales, leaving a stock of 1,096 bales at the end of August 1919, compared with 303 bales in August last year.

SENEGA remains very firm at from 8*s*. to 8*s*. 3*d*. per lb. on the spot.

SENNA.—Tinnevelly leaf has been in fair demand at firmer rates from second-hands. The landings in London during August amounted to 288 packages and the deliveries to 588 packages, leaving a stock of 5,357 at the end of August 1919, against 8,788 in August last year.

SHELLAC has been much quieter, and prices are about 10*s*. per cwt. lower, the spot value of the usual standard TN Orange quality being 480*s*., fine Orange 492*s*. 6*d*. to 500*s*., and AC cakey to blocky 460*s*. The sales for delivery include October at 475*s*. to 477*s*. 6*d*.

SPIRIT (METHYLATED).—Reports are current in spirit circles that a movement is on foot to form a financial syndicate to acquire the businesses of the methylators in this country.

STARCH PRODUCTS.—English maize starch is quoted at 72*s*. 6*d*. net, and English rice starch at 74*s*. 9*d*. net ex wharf London.

STEAMONIUM-LEAVES.—A parcel of 11 bales which arrived from New York last week is said to have been sold. To come forward from Italy about 130*s*. per cwt. is quoted, but it is difficult to obtain offers.

SULPHONAL is lower at 78*s*. per lb. on the spot, and to arrive 75*s*. is quoted.

THYMOL is slow of sale, and can still be bought at 31*s*. 6*d*. per lb. on the spot, although India asks more than this. A licence is required to import from Spain, but not from India.

TURPENTINE has continued active, but there is practically no change in price on balance. American closing at 128*s*. 6*d*. for spot and September.

VANILLIN.—Regular importers are able to obtain licences without difficulty. Although present prices still leave a good margin of profit, the tendency is firm at from 65*s*. to 70*s*. per lb. American makers report a scarcity for early shipment.

WAX, VEGETABLE.—Japanese is quiet and easier on spot, with sellers at 94*s*. per cwt.

WILD-CHERRY BARK is offered on the spot at 10*d*. per lb.

WITCH-HAZEL LEAVES.—Good are offered at 7½*d*. per lb. on the spot.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports named:

London

(Aug. 26 to Sept. 1).

Barytes, (U.S.) 420 brls., (Sp.) 500 brls. 1,800 bgs., (Antw.) 143 bgs.
Casein (S. Amer.), 1,503 bgs.
Chemical products: not described, (Fr.) 5 cs., (N.Y.) 13 pkgs.
Calc. citrate, (Demerara) 51 cks. 3 pkgs., (Sic.) 108 cks.
Calc. tart. (Fr.), 466 bgs.
Phenazone (Belg.), 10 cs.
Pot. iodide (Jp.), 55 cs.
Pot. chlor. (R'dam), 400 bgs.
Pot. sulph. (Fr.), 200 bgs.
Rholine (Fr.), 10 cs.
Sal acetos (N'way), 120 brls.
Sulphur (Sic.), 400 bgs.
Tartar, (Sic.) 18 cks., (Fr.) 323 bgs. 52 cks., (Sp.) 96 brls.
Tartaric acid (It.), 52 cks.
Zinc oxide (N.Y.), 6,632 brls.
Cocoa butter (Swe.), 20 cs.
Dextrin (U.S.), 3,570 bgs.
Drugs, crude: roots (N.Y.), 33 pkgs.
Camphor, (Jp.) 300 cs., (Ch.) 30 cs.
Cantharides (Ch.), 39 cs.
Cardamoms (B'bay) 787 cs.
Cascara (N.Y.), 964 bgs.
Chamomiles (Ghent), 21 bls.
Civet (Aden), 2 cs.
Cochineal (Canary Is.), 35 bgs.
Colocynth (Alex.), 12
Kola (W.I.), 15 bgs.
Liquorice-paste (Sp.), 45 cs.
Liquorice root (It.), 10 bgs. 1 cs.
Menthol (Jp.), 50 cs.
Nux vomica (Ch.) 140 bgs.
Saffron (Sp.), 2 cs.
Senega (N.Y.), 8
Tamarinds (W.I.), 18 brls.
Turmeric (B'bay), 308 bgs.
Valerian (Ghent), 31
Drugs, medicines, etc., not described, (New York) 71 pkgs., (Genoa) 10 cs.: emulsions (Boston), 1,428 bxs.: plasters, (N.Y.), 29 cs.: vaseline (N.Y.), 637 cs.
Dyes, dyeing and tanning materials, etc.: aniline dyes (Belg.), 688 pkgs.: extract (Fr.), 204 cks.: myrabolans (Cal.), 3,538 pockets: sumach (It.), 1,850 bgs.
Egg-yolk (Ch.), 92 cks. 224 cs.
Henna (Alex.), 33 bgs.
Glucose (U.S.), 2,550 brls. 6,997 cs.
Gums, resins, etc., not described, (B'bay) 67 cs. 167 bgs., (Fr.) 153 bgs.: copal (Fr.), 25 pkgs.: karaya (Bombay), 42 bls.: lac, button (Cal.), 200 chts. 214 bgs.: garnet, 150 cs.: shell, 200 chts. 900 cs.: olibanum (B'bay) 50. cs.: resin (Antw.) 1,340 cks.
Honey (W.I.), 10 cks. 162 cs.
Lead, white (N.Y.), 541 cks.
Lime juice, (Demerara) 41 hhds., (W.I.) 53 cks
Oils, essential: not described, (N.Y.) 52 cs., (It.) 30 cs., (Sic.) 7 cs. 56 × ½ cs. 150 × ¼ cs.: bay (N.Y.), 7 cs.: lime, (Demerara) 6 cs., (W.I.) 5 cs. 3 cbys.: mint (Jp.), 302 cs.: patchouli (Jp.), 20 cs.: peppermint, (Swe.) 20 cs., (Halif. N.S.) 8 cbys.: turpentine, (Antw.) 400 brls., (Fr.) 350 brls.
Oils, fixed: coconut (N.Y.), 500 brls.: (acid oil), (U.S.) 587 brls., (Jp.) 10,000 cs., (Holl.) 2,666 brls.: fish (Jp.), 400 cs.: hardened, (Jp.) 500 cs., (R'dam) 160 brls.: lin (Amst.), 120 brls.: olive, (Sp.) 645 brls., (Fr.) 84 cks.: rape (Jp.), 1,000 cs.: sperm (W.I.), 105 brls.: tea seed (Ch.), 600 cs.: wood (Ch.), 1,780 cs.
Perfumery (Fr.), 15 cs.
Seeds: caraway (R'dam), 250 bls. 250 bgs.: copra, (W.I.) 1,025 bgs., (Cey.) 338 tons: cotton, (B'bay) 2,544 bgs., (Alex.) 275 tons.: fenugreek (Fr.), 277 bgs.: ground-nuts, (Ch.), 500 bgs., (Sp.) 100 bls. 325 bgs.: kurd (B'bay), 660 bgs.: lin, (E.I. 44,274 bgs., (Alex.) 999 bgs.: niger (B'bay), 550 bgs.
Spices: arrowroot (N.Y.), 11 brls. 1 ¼ brl.: cassia, (Ch.) 1,725 cs. 400 pkgs., (W.I.) 15 bgs.: cinnamon (N.Y.), 300 bdls.: ginger, (Bombay) 385 bgs., (Ch.) 600 cs.: mace (Bombay), 38 cs.: pepper, (Sp.) 15 cs., (S'pore) 568 bgs., (E.I.) 1,337 bgs.
Starches: potato (Jp.), 9,350 bgs.: wheat, (Jp.) 1,000 bgs., (U.S.) 2,500 bgs.
Stearin (B.A.), 145 cks.
Talc (Fr.), 403 bgs.
Tallow (S.Amer.), 1,044 trcs.
Vanilla (Sydn.), 156 cs.
Wax, not described, (Port.) 410 pkgs., (Alex.) 24 bgs.
Wax, bees', (Cal.) 55 cs., (Alex.) 24 bgs.
Wax, paraffin (U.S.), 2,675 bgs. 3,894 brls. 510 cs.

Liverpool

(Aug. 25 to 30).

Chemical products: Argol (Sic.), 257 bgs.
Pot. chloride (R'dam), 2,500 bgs.
Saltpetre (Cal.), 1,000 bgs.
Sulphur (Sic.), 2,271 bgs.
Tartar (Sic.), 20 cks.
Tartaric acid (It.), 40 cks.
Zinc oxide (R'dam), 15 cs.
Drugs, crude: herbs (Fr.), 35 bls.: herbs, roots and barks (N.Y.), 93 pkgs.
Calabar beans (W. Af.), 3 bgs.
Copaiba, (P'buco) 35 cs., (Maranham) 14 brls.
Ipecacuanha (Pernambuco), 5 bls.
Kola (Jam.), 50 bgs.
Liquorice, (Sic.) 104 pkgs., (It.) 21 cs.
Squill (Sic.), 10 bgs.
Drugs, medicines, etc., not described (U.S.), 62 cs.
Dyes, dyeing and tanning materials, etc.: annatto (Fr.), 6 cases: chestnut ext. (N.Y.), 427 brls.: cutch (R'goon), 1,150 bxs.: extract (tanning (Fr.) 1,086 cks., (U.S.) 12,590 brls.: logwood (W.I.), 50 tons: logwood ext. (W.I.), 1,258 cks.: myrabolans (Cal.), 224 pockets 980 bgs.: (crushed), 529 pkgs.: sumac (It.), 4,770 bgs.: (leaves) (It.), 50 bls.
Gums, resins, etc.: lac (Cal.), 175 cs.: resin, (Fr.) 1,070 cks., (U.S.) 9,783 brls., (Sp.) 400 bgs.
Honey, (Jam.) 377 cks., (S. Amer.) 21 cks.
Lithopone (N.Y.) 1,000 brls.
Molasses (Calif.), 5,662 tons
Oils, essential: not described (Sic.), 61 cs. 164 pkgs.: lemon (Sic.), 20 cs. 2 pkgs.
Oils, fixed: coconut (Cal.), 13,267 cs.: cotton (R'goon), 1,876 cs.: fish (U.S.) 500 brls.: groundnut (R'goon), 3,735 cs.: palm (W. Af.), 2,087 cks.: seal (U.S.), 4,227 brls.: sperm (U.S.), 195 brls.: whale (U.S.), 404 drms. 5,265 brls. 820 tons
Seeds: annatto (Jam.), 64 bgs.: copra, (B'zil) 52 bgs., (Cey.) 8,585 bgs., (W. Af.) 24 bgs., (Cal.) 6,311 bgs.: cotton, (B'zil) 46,672 bgs., (R'goon) 1,000 bgs.: groundnuts, (U.S.) 3,349 bgs., (W. Af.) 877 bgs.: lin (Cal.), 35,248 bgs.: palm (W. Af.), 15,739 bgs.
Spices: pimento (Jam.), 825 bgs.
Talc, (Fr.) 7,825 bgs., (Norw.) 55 bgs.
Wax, carnauba (B'zil), 212 bgs.
Wax, paraffin, (N.Y.) 2,002 brls. 6,400 bgs., (Can.) 28 cs.

Hull

(Aug. 23 to 29).

Acetic acid (N.Y.), 350 brls.: alcohol methyl (N.Y.), 170 drms.: barytes

(Belg.), 37 bls. 254 bgs.; carbon black (N.Y.), 200 cs.; chamomiles (Belg.), 5 bls.; chemicals, not described (N.Y.), 75 brls.; coconut oil (Cey.), 330 puns.; glucose (N.Y.), 979 cs. 996 cks. 598 brls.; palm oil (W. Af.), 29 cks. 121 butts 21 puns.; petrolatum (N.Y.), 25 brls.; resin (N.Y.), 500 brls. 30 cks.; seeds: copra (Cey.), 28,605 bgs.; cotton (In.), 62,661 bgs.; jamba (E.I.), 15,750 bgs.; lin (R. Plate), 91,525 bgs.; palm kernels (W. Af.), 2,866 tons 43,126 bgs.; rape (In.), 8,945 bgs.; soda nitr. (Fr.), 45 cks.; tartar (Fr.), 20 brls.; turpentine, (Swe.) 35 cks., (R'dam) 248,818 gal.; valerian (Belg.), 5 bls.; wax, paraffin (N.Y.), 405 brls.

Manchester
(Aug. 23 to 29).

Calc. phosph. (U.S.), 136 brls.; dextrin (N.Y.), 1,746 bgs.; dyewood ext. (N.Y.), 29 brls.; farina (R'dam), 5,070 bgs.; glucose (N.Y.), 10,215 brls.; linseed oil (N.Y.), 140 brls.; lithopone (R'dam), 600 cks.; oxalic acid (R'dam), 15 cks.; phosphorus (Can.), 500 cs.; resin (U.S.), 1,500 brls.; soda acetate (N.Y.), 45 kgs.; starch (U.S.), 5,180 bgs.; (wheat) (U.S.), 1,000 bxs. 440 bgs. 7,643 bls.; tartar emetic (Fr.), 6 cks.; vaseline (N.Y.), 148 brls.; wax, paraffin (scale) (N.Y.), 3,049 brls.; zinc oxide (R'dam), 10 cks.

Southampton
(Aug. 25 to 30).

Almonds (Fr.), 205 pkgs.; bark (wattle) (Durban), 4,348 bls.; chemicals (N.Y.), 721 pkgs.; drugs and essential oils (N.Y.), 139 pkgs.; drugs (N.Y.), 28 pkgs.; tartar (Fr.), 46 cks. 18 cs. 43 pkgs.

America and Industrial Alcohol.

Despite prohibition the output of alcohol in the United States is expected greatly to increase, according to a bulletin issued by the Americal Chemical Society. The great development in industrial and engineering chemical activities, which grew out of the war, requires vast quantities of alcohol as a solvent. The millions of gallons that have been used for beverages will now be devoted to making this country independent of German chemical monopolies. A Bill has been introduced in Congress to deal with "the manufacture and sale of high-proof spirits for other than beverage purposes, and to ensure an ample supply of alcohol and promote its use in scientific research and in the development of fuel, dye, and other lawful industries."

Sudan Gum Acacia Crop.

The total decrease of the 1919 gum crop passing through El Obeid, according to the latest available figures, amounts to 32,000 kantars when compared with last year's figures. Considerable quantities of spot stocks, says "The Times Trade Supplement," stored at El Obeid, were sold recently, fetching 125 to 130 piastres per kantar. The balance of stock remaining after these sales was 7,000 kantars, the holders of which were not disposed to sell. Owing to heavy rains, arrivals at the markets were much reduced, the roads in the outlying districts having been rendered impassable. In order to improve the system of commercial transactions, a Chamber of Commerce has been inaugurated at El Obeid. One of the first matters it will have to consider is the organisation on a practical business footing of all gum sales.

Camphor Production in Formosa.

During the past year the production of camphor in Formosa decreased considerably, mainly owing to the fact that the labourers found more remunerative employment in industrial works than on the camphor plantations. During the period 1917-1918 Formosa produced 60,000 piculs, against a production of 89,000 piculs in the preceding year. During the same period Japan's production diminished by half, amounting to only 20,000 piculs. Owing to the shortage of camphor for home consumption, only 8,000 piculs of crude camphor were exported, whereas foreign manufacturers of celluloid and camphor refiners required no less than 72,000 piculs. During the first eight months of 1918 the total exports of camphor amounted to 1,422,222 kin, of an aggregate value of 2,900,000 yen, of which 31,700 kin were exported to British India, 345,000 kin to Great Britain, 31,000 kin to France, and 474,000 kin to the United States. The price averaged from yen 2.10 to yen 2.40 per lb. The camphor monopoly bureau has requested the Government to urge the population to plant as many camphor trees as possible, and also to search the forests for these trees.

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Correspondence

Import Restrictions.

Sir,—I notice complaints in some quarters that the restriction of the import of fine chemicals has forced up prices against the consumer, and the case of salicylic acid and salicylates is referred to as proof of the contention. May I be allowed to point out that, just prior to the restriction, English makers of these particular products were obliged to sell at below their cost of production, in order to compete with foreign salicylic acid and salicylates "dumped" into this country and offered for sale at prices lower than those ruling in the country of origin? One of the chief objects my company has had in view in urging the restriction of the import of certain fine chemicals, is to secure to the British manufacturer a reasonable margin of profit, and makers cannot be blamed if they now secure this with the object of so establishing their business as to be in a position to compete with all comers when the import restriction is removed. Manufacturers know quite well that the unreasonable forcing up of prices against the consumer would only result in again opening the market to the foreign competitor. Manufacturer and consumer—wholesaler and retailer—surely realise that import restrictions are only a means to an end, *viz.*, the ultimate establishment of important "key" industries within the British Isles on such a scale as to be proof against all foreign competition. If this commendable object is kept constantly in mind, it should not be difficult to adjust business to meet the new conditions without inflicting hardship in any quarter.—Yours truly,

Ralph J. Pugh.

London Chemical Works, Ltd., Southall.

Insurance Dispensing Difficulties.

Sir,—The article, "Insurance Drug Supply," in the *C. & D.*, p. 50, September 6, is a welcome and lucid explanation of the difficulties which occur in the supply of drugs on panel prescriptions, and should be noted by every panel chemist. May I point out, however, that to refer to the doctor, to telephone to obtain special preparations, frequently by post, cost time and money which the rate of payment does not allow for. *A propos* of this, some few weeks ago a writer in the "Daily News" was surprised and indignant that a chemist had refused to send out panel medicine. Perhaps, if he had been more familiar with the profits allowed, he would not have raised the question. With regard to the supply of foods, I will give an instance which, although it happened some time ago, is interesting as showing how difficult it is to foresee the views of the Committee. We had a customer who was suffering from diabetes, and the doctor ordered a mixture and some gluten flour, the two being dependent upon one another. This we obtained and supplied on one or two occasions, never doubting that it would come under the drug supply under the circumstances, but the Committee disallowed the item, and we were out of pocket for a matter of about 10*s.*, in spite of pointing out that the gluten flour was complementary to the mixture. Then again, although we should all like to work in harmony with the physician, there are some localities in which the doctors apparently try to give the chemist needless trouble and expense. Take the case of a man who orders an ounce of each of two ointments to be supplied in separate boxes, and the patient is directed to mix before applying, the idea being to cut the dispensing fee. The inference is obvious.—Yours faithfully, Glutenic. (15/61.)

Profiteering Tribunals.

Sir,—When I am summoned before the Tribunal for profiteering because I have charged 1½*d.* for a 1*d.* box of pills, will the evening papers come out with headlines, "Profiteering Chemist Raises Prices 50 per Cent. at Once," and will the Costing Committee, on ascertaining

that I buy my pills by the pound and sell them four a penny, come to the conclusion that I am getting 500 per cent. profit? And will the Tribunal allow me to point out that a large proportion of my turnover comprises proprietary articles at an average profit of 1*d.* in 1*s.*, or 8½ per cent., which is not nearly enough to pay working expenses, so that I am obliged to get a large profit on other goods to keep the pharmacy open? And will they further allow me to draw attention to the fact that panel drugs and appliances can only be supplied on a cost-price tariff because of the profit made on other goods which the customers buy, the proof being that there is no instance of a pharmacy opening and thriving on nothing but Insurance dispensing work? Furthermore, are we to be at the mercy of every price-bater who hopes to get things cheaper, and if we are to be worried with baseless charges, what remedy have we? If the case is not confirmed and we are exonerated, can we sue the complainant for damages for loss of time, trade, and slander? This letter is made up of queries, but they naturally present themselves to my mind, and possibly some of your correspondents can give us further light on the subject; but it looks as though the Bill is going to prove a great injustice to the many small retailers while leaving the big people untouched. By the way, I have been duly notified that soap has just gone up again all round. I hope that no one will summon me for charging the increased price on the ground that I bought the soap before the rise; if so, where do I stand, first, as regards the Tribunal, and, secondly, as regards price-cutting if I do not charge the advance?

Yours faithfully,

DILEMMA. (280/87.)

Assistants' Wages.

SIR,—Assuming I adopt the scale of wages suggested by the Sheffield assistants so far as I can calculate it, I shall stand as follows: After paying rent, rates (rising), taxes (rising), and these increased salaries I shall have in round figures about 30*s.* weekly for myself. To do this I must do all the overtime myself, and give up my two weeks' annual holiday.

Yours faithfully,

ONLY THE "GUVNOR." (17/15.)

Federation of Associations.

SIR,—The Executive Committee of the North London Pharmaceutical Association desires to call attention to the insertion of September 24 as the date returnable for comments from Associations on the federation proposals of the Pharmaceutical Council. This date was not inserted in the official Council report, and must have been added afterwards. The Executive wishes to point out that owing to holidays it will be impossible for the Association to consider the question until the October meeting, it being the leading item on the agenda. If a federation is to be of any service, surely it must be based on adequate consideration by the Association meetings before general district meetings are called, otherwise federation on Scottish lines seems the only reasonable basis promising success.

HERBERT SKINNER, GEORGE WEISS, } Joint Secretaries.

Grants to Students.

SIR,—I was interested in your article "Grants to Students" (*C. & D.*, September 6, p. 57), especially as I am in a similar position with regard to training. Having had my grant confirmed by the Central Grants Committee, I have been waiting for more than a month for arrangements to be made for my future training at a recognised School of Pharmacy. Is it possible that every school in London, where the full nine months' course is given, is full for the next session? If so, should not places have been reserved for those students who had made application for Government assistance? At least, one would think that we should be informed of that fact, as three months' extra waiting means a longer period before qualification, besides placing us on tenterhooks now as to giving a month's notice in order to terminate present engagements, that we may commence in October next, should we be informed of vacancies at the eleventh hour.

Yours faithfully,

PENDING. (20/18.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

The *C. & D.* would be a good investment even if it cost twice as much.—*H. J. W.* (91/21).

"I should like to say how very useful your paper always is, especially during these days of constant change in prices, regulations, etc. To solitary pharmacists like myself, who have no 'brother pill' within six to eight miles, it forms the only link with current affairs in pharmacy: and you seem to hit on just the things one wants to know."—*T. R. P.* (210/19).

Invoices for Photographic Goods.

A Photographic Chemist (17/54) writes to say that he has recently noticed an unusually large number of errors in the pricing of photographic goods. He wishes us to put chemists on their guard against over-charges.

Doctors' Dispensers' Salaries.

T. W. H. (2/32) sends us a postcard received from a medical man, who offered him a position as *locum tenens* dispenser at 30*s.* per week. The hours were to be 9-11.30 A.M., 5-8 P.M.; Thursdays, 5-6 P.M. No Sunday duty.

Agencies Warning.

A British Chemical Merchant (19/8) asks us to warn manufacturers and wholesale merchants to exercise care in the choice of agents with whom they entrust their business in British Possessions. He has recently had an unpleasant experience in this line, and is anxious to put other firms on their guard. We shall be glad to give further information of this case if desired.

What is a Tout-bib?

Parisian (3/81), referring to the article "Pharmacy in the Belgian Army," in which the slang word "tout-bib" is mentioned, writes: To trace the origin of some of the slang terms invented in the trenches and carried into French homes by the *poilus* would be an intricate and often hopeless task. But the expression "toubib," used to define an Army surgeon, is simply the term by which the Arabs designate their native doctors (perhaps "medicine men" would be a better definition) in Algeria.

Returned Empties.

A Bristol correspondent (27/2) asks if other pharmacists find difficulty in having their empties removed. He states he usually places a card (printed in heavy type) in his window for passing carters to read and, when convenient, call and collect the returns for consignment by the various railways or steamers. This plan in pre-war days was found to be excellent, but now the carters decline to remove empties, presumably owing to congestion on the railways, etc. It must be difficult for wholesale firms to carry on if the state of affairs of which he complains is universal.

Tobacco as a Side-line.

Forward (243/59) writes in reply to the inquiry in the *C. & D.*, August 2, p. 72: I consider tobacco, cigarettes, and cigars a good side-line for village and suburban chemists. These do not give much trouble, are clean to handle, and take up very little room. The profit on cigarettes is 20 per cent. and tobacco 14 per cent. when bought from the manufacturers. Minimum quantities: tobacco, 28 lb.; cigarettes, 5,000. Small quantities can be had from tobacco merchants at 2½ per cent. on makers' prices, and this is the best way for beginners. One good firm advertises in the *C. & D.* I have sold these goods for twenty years, and they are easily my best side-line. The writer uses a flat-top counter-case for showing the goods.

Rendering Glass Opaque.

In reply to a recent inquiry a subscriber (9/4) writes: The only suggestion I can make is the following: Paint the clear glass white, green, or any fancy colour on the inside of workrooms. Use for this purpose any strong glass-adhesive paint. Then when the paint is dry put another window-pane against it. Fix the glass with a half-inch wood frame all round, or use the usual putty and nails. If you want to make sure that nobody can scrape off the paint, the above is the only positive remedy. To get at the paint one would have to break the glass. The suggestion is certainly rather expensive, but it might be applied to the lower window-panes within reach of "scratchers." For the upper panes a person would hardly go to the trouble and risk of trying to scratch off the paint.

Legal Queries.

A. S. C. (17 49). We should think the better title for the flavoured quinine mixture intended to replace quinine wine would be "quinine-wine substitute." The other title you suggest, "non-alcoholic quinine wine," is in our opinion misleading, as the mixture is not vinous.

G. D. Y. (14 68).—TRADE-MARK RENEWAL.—This is made on Form T.M. No. 12, which costs 1*l.*, and is available for one mark only. The form T.M. No. 20 (5*s.*) is used in cases where it is desired to alter the address of the owner of the trade-mark. The forms can be obtained from any money-order office.

S. C. S. (50 27).—We do not think that anyone could obtain registration of the words "No. 9 Army Pills," *per se*, seeing that they are the description used by the Army Medical Corps for an aperient pill. The formula has been included in "Pharmaceutical Formulas" for some years, and needs only quoting as "P.F." to make it into a duty-free "known, admitted, and approved remedy" for sale by chemists.

Crucible (13 19).—DECEASED CHEMIST'S BUSINESS.—Any "executor, administrator, or trustee" of a chemist's business may carry on the business so long as a registered chemist is the *bona-fide* conductor and his certificate of qualification is exhibited conspicuously in the shop. Section 16 of the Pharmacy Act, 1868, and Section 3 (2) of the Poisons and Pharmacy Act, 1908, do not limit the action to widows of deceased chemists.

R. B. (17 58).—The only way of obtaining the Minor certificate upon payment is under the new by-law by which apothecaries' assistants who fulfil certain conditions are admitted to the Register of Chemists and Druggists without examination. Report No. XXIII. upon openings in industry suitable for disabled sailors and soldiers (Stationery Office, 1*d.*) is a scheme for training such men as chemists. We do not know whether your disablement is such that you would be adjudged a suitable person to benefit by the scheme: an Advisory Committee has to settle this question for the Ministry of Pensions.

J. W. (15 33).—HEALTH INSURANCE CONTRIBUTIONS.—Employers of persons earning up to 250*l.* a year are by the National Health Insurance Act, 1919, required to pay the employer's contribution (3*d.* weekly). The employed person may, on the other hand, claim exemption from payments if since June 29 he has not had any insurable employment which was remunerated at a rate not exceeding 160*l.* a year. An official notice regarding the change brought about by the new Act was given in the *C. & D.*, August 23, p. 41. The payment of income-tax has nothing to do with the contributions payable for health insurance.

S. R. (11 30) says that, being anxious to become a "partner" in a limited liability company of which he is a full-time employé, he bought from one of the other "partners" shares to the value of 2,000*l.*, a part of which he borrowed and has to pay interest on. He wishes to know if this interest is an allowable deduction on his assessment for income-tax. [No: the interest paid on borrowed capital used in a business is not an allowable deduction for income-tax. The tax does not fall on "S. R." His proper course is to deduct the tax from the interest when paying it to his creditor. The creditor then, if entitled to exemption and a resident in this country, may claim repayment of the tax from the Revenue authorities at Somerset House. The tax is to be deducted at the highest rate in force (6*s.* in current year), whatever may be the rate at which "S. R." pays tax on the rest of his income, and the whole sum deducted must be paid over to the Revenue.]

X. Y. (13 20) has had an excess-profits tax form sent him to be filled up. He wishes to know for what years he will have to make the return, and what is the amount for which he is liable. His figures show: Pre-war standard, 214*l.*; year 1914, 327*l.*; year 1915, 488*l.*; year 1916, 248*l.*; year 1917, 429*l.*; year 1918, 891*l.* [As the liability to the duty has to be considered with reference to the whole period during which the tax has been in force, the figures for each of the years should be given on the return, unless these have already been furnished to the tax authorities. On the profits given "X. Y." is not liable to pay excess profits duty. Worked out for the whole five years there is a balance in his favour of 134*l.*, which would have to be wiped out by additional profits before excess-profits duty would be chargeable. This may, however, be liable to some adjustment, because of the change of the rates of duty taking effect within the currency of "X. Y.'s" accounting business years.]

Miscellaneous Inquiries.

Cymro (206 6).—PRICE OF BUSINESS.—500*l.* for goodwill appears to us excessive for a business where the gross profits are an average of only 700*l.*, and likely to drop within the next three years, unless there are special reasons for position, no opposition, and special desirability. Goodwill should be based on net profits and not on gross. The sum of 600*l.* for fittings seems high, unless warehouses, cellars, and stock-rooms are large and well shelved, and supplied with bins, lockers, and tins.

A. H. C. (182 21).—SPIRIT TABLES.—Thorpe's "Alcoholimetric Tables" (Longmans, 3*s.* 6*d.*) is a standard work. Mr. F. C. J. Bird's alcohol dilution table given in the "Year-Book of Pharmacy," 1904, is a useful one for preparing various strengths of alcohol.

A. A. A. (254 26).—THE "CALIFORNIA BEES" seem to be a modification of the old ginger-beer plant which was popular some years ago. It is gas-generating organism which requires sugar for its development.

R. L. F. (256 18).—SALICYLIC ACID AS A JAM-PRESERVATIVE is used in the proportion of ½ oz. to 1 cwt. of jam. The use of the preservative enables a product to be sold which contains more water than when the jam is boiled longer.

A. A. G. (2 67).—Bagginess under the eyes in the morning is an indication for testing the urine for albumen, as it is sometimes the first sign of Bright's disease. Apart from this it may have no particular significance in the absence of any other sign of bad health.

A. E. F. (259 57).—It looks as though some contamination with iron had taken place in the face cream to produce the darkening. We will look into the matter further.

C. L. (10 10).—POLISH FOR MOTOR-CAR BODIES.—The following is the type of polish that has been found best for use on motor-car bodies:

Linseed oil	10 oz.
Spirit of turpentine	3 oz.
Spirit	2 oz.
Hydrochloric acid	½ oz.
Vinegar	10 oz.

Mix the oils with the acid, then add the vinegar and spirit. Apply sparingly, and rub well.

H. S. C. (British Guiana) (223 60).—KOLA CONSTITUENTS.—There does not appear to be any very recent estimation of the constituents of kola, but the following analysis made in 1897 is given as the mean percentages of ten samples:

Water	13.35
Total nitrogen	1.53
Protein	5.91
Caffeine and theobromine	2.08
Ether extract	1.35
Starch	45.44
Tannin	3.79
Cellulose	7.01
Other nitrogen-free extractive ...	18.21
Mineral matter	2.9

E. T. B. (9 60).—EXPRESSED OIL OF NUTMEG, sometimes known as nutmeg butter, is intended for "butyr myrist."

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1869.

Effect of the Pharmacy Act.

Mr. Daniel Hanbury, F.R.S., President of the British Pharmaceutical Conference, in his address at Bath, said: Speaking from my own experience, I may say that in the City of London there has been very little difficulty in complying with the requirements of the Pharmacy Act, and that its tendency has been advantageous to public safety and convenience. On the subject of registration and the other important provisions of the Act I will now say nothing; but I must make a passing allusion to the very great stimulus to improved education which such a measure will infallibly prove. Its effects are already apparent: in no previous year have the laboratories at Bloomsbury Square been filled with more numerous and intelligent students; and though I know that some exception may be taken to one class of our examinations on the ground of their lenient character, it is no insignificant fact that 600 persons have passed these ordeals in the house of the Pharmaceutical Society during the first six months of the present year.

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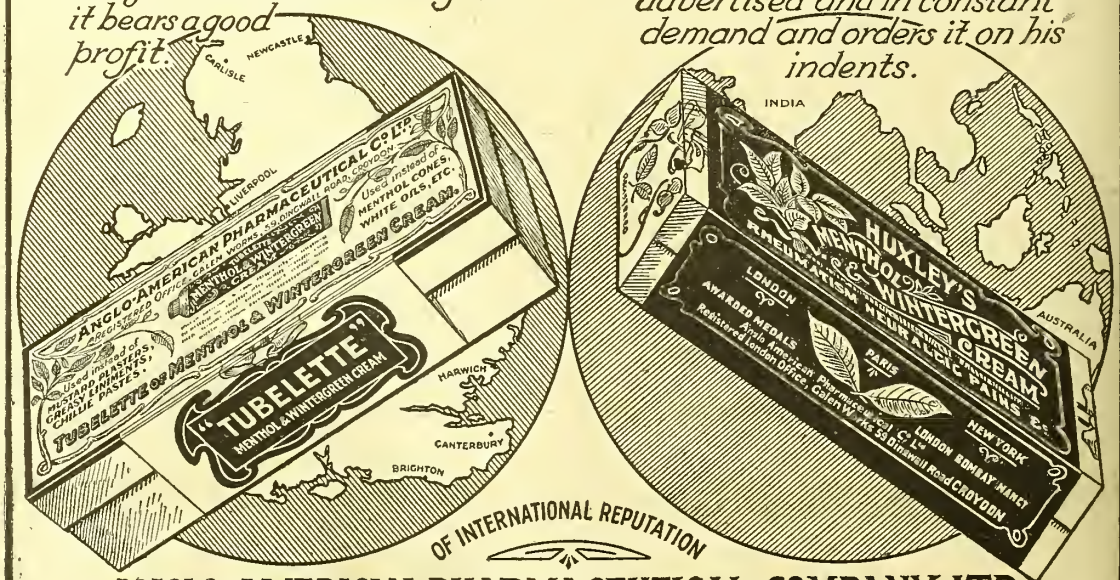

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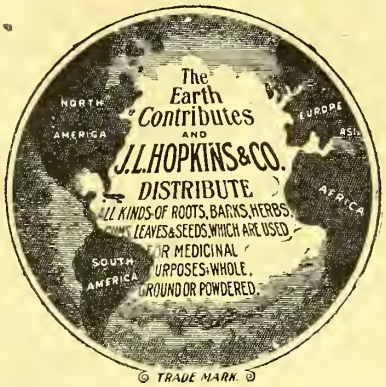

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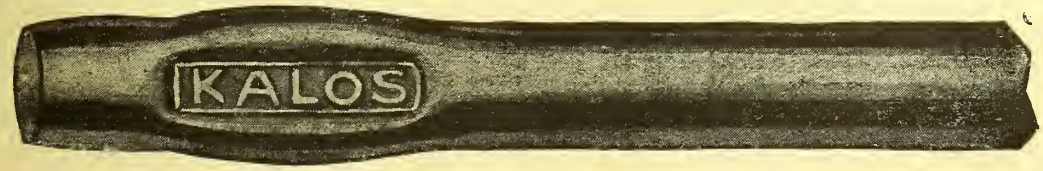

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AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.
INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.

Stocked by all Wholesalers. *Now being largely advertised.*

IT CLEANS WHEN OTHERS FAIL.

"CASSO"

Cleans immediately, with NO exertion, Baths, Marble, Paint Work of every description, Brass, Silver, Tiles, Toilet Ware, Linoleums, Floors, Sinks, Kitchen Table Tops, &c. &c.

Removes Grease or Dirt from the Hands, and does not injure the Hands or Clothes.

"CASSO" has no faults, it does not deteriorate through keeping in stock, does not injure or scratch the finest enamel work.

"CASSO" is packed in 1-lb. Tins retailing at 1/-, and 2-lb. Tins retailing at 1/10. Money returned to any customer who is not satisfied.

"CASSO" shows a GOOD Profit to the Retailer.

Sole Manufacturers:

The CASSON CHEMICAL CO., LTD.,

11 Craven Hill, London, W. 2.

Phones: PADD. 321, 322 & 3518.

TRADE CASSON BRAND MARK

ARRIVAL OF LIMITED STOCK OF

NEW-SKIN

After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

PRICES.

Retail.			Trade.
9d.	...	...	7/7 per doz.
1/3	...	...	12/8 ,, ,,
2/6	...	...	25/3 ,, ,,

Less 5% for payment at 1 month.
£3 and up. carr. paid.

The Trade may therefore now order, through their Wholesalers or direct from

J. E. CARRATT, 96 Southwark Street, LONDON, S.E. 1

FOR THE WINTER STOCK

PLACE ORDERS NOW.

Sphagnol

OINTMENTS and SOAPS

Samples and full particulars will be sent by return to every Chemist.

THE LIBERAL TERMS WE OFFER

have already been taken advantage of by many Chemists. SPHAGNOL is well advertised in the Medical Press, and we can send users of SPHAGNOL to you.

SPHAGNOL SOAPS and OINTMENT are in greater demand to-day than ever before. Doctors are prescribing them and Nurses use them in the treatment of ECZEMA, PSORIASIS, Hæmorrhoids, Pruritus, Insect Bites, Burns, and all forms of SKIN IRRITATION.

LAST WINTER, CHILBLAINS were experienced very EARLY. SPHAGNOL proved most efficacious in the treatment of them.

PEAT PRODUCTS (SPHAGNOL) LTD. 19 QUEENHITHE, UPPER THAMES ST., London, E.C.4

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

			per doz.
D.D.D. Prescription	2/9 bottle,	M.R.P. Face Value, @	25/6
,, ,,	5/- ,,	,, ,, ,,	47/-

In two strengths—Ordinary and Strong.

			per doz.
D.D.D. Soap	1/- tab.	M.R.P. Face Value, @	8/3
,, Shaving Soap ...	1/6 stick	,, ,, ,,	13/6
,, Vanishing Cream	2/6 jar	,, ,, ,,	22/6
,, Shampoo Powders	2/6 box	,, ,, ,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.

3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

'KO-TAL-KO'

CERTAIN IN RESULTS and CERTAIN IN SALES

THE PUBLIC WANT IT

For strong advertising has taught them its merits, and practical experience has proven its claims. "KO-TAL-KO" is the strongest recommended hair preparation on the market, and this, in conjunction with my widespread publicity, is the best of all reasons why

YOU SHOULD STOCK IT.

Apart from quick and ready sales my trade prices allow of a fair profit to you. "KO-TAL-KO" is always on the move, never cumbers the shelves long, and is a business asset of the highest value for your repeat orders are always warranted.

IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.

RETAIL PRICE P.A.T.A. 5/- Size 12/6 ..

ORDERS AND DETAILS FROM

J. Hart Brittain (Dept. C.D. 2), Ltd

2 PERCY ST., LONDON, W.1.

TRADE PRICE 48/- per doz. 112/6 ..

"Ōsyl" REGISTERED TRADE MARK

TOOTH PASTE

M.R.P.

7½D. and 1/-

PER TUBE.

Read this, from a satisfied Pharmacist:

"Never sent a cheque with more pleasure, wish I could do a hundred times the amount, but this is only a small village."

The Line that gives you 100 % profit. Make your order out as below and send on to us for the SPECIAL WINDOW SHOW PARCEL.

Please send me, carriage paid, with Window Display matter:

ŌSYL TOOTH POWDER at **48 -** per gross.

ŌSYL TOOTH PASTE **7½**d. „ **67 6** „

OSYL TOOTH PASTE **1/-** „ **108 -** „

with bonus of ½ **quantity** ordered on three dozen lots,

for which I enclose cash and undertake to make counter and window display in return for above special terms.

LYSOL Ltd., Stratford, LONDON, E.15.

NOW ON THE P.A.T.A. LIST.

EASELIB for PILES

We have completed arrangements for a

GREAT ADVERTISING CAMPAIGN

to commence immediately. DO YOU HOLD STOCK of the

NEW COMPRESSED TABLET FORM

You can obtain supplies from your usual Wholesaler.

1/3 size	....	12/- per dozen
3/- ,,	....	28/9 ,,
5/- ,,	....	48/- ,,

EASELIB IS PROTECTED AT FACE VALUE

If you will display one of our Showcards, and send cheque with order, we will make you a payment of 1 BOX FREE with each dozen ordered. Upon these terms your profit will be 4¼d. on the 1/3 size, 10¼d. on the 3/- size, and 1/5 on the 5/- size.

If you hold any stock of EASELIB bearing the name of Woolford & Co., Leeds, please return it to us at once. We pay postage both ways.

The EASELIB REMEDIES COMPANY, 2 Upper Road, BATLEY, YORKS

Grasshopper OINTMENT AND PILLS

Protected at Face Value by P.A.T.A.

These remedies have been before the public for upwards of fifty years, and ARE STOCKED by all the leading WHOLESALE HOUSES throughout England and the Colonies.

During the last three years our expenditure in ADVERTISING has been TREBLED.

Our turnover has also TREBLED, and MAIL ORDERS have multiplied TENFOLD.

MAIL ORDERS we do not desire, they entail additional labour without extra profit, and indicate that our goods are not stocked by the RETAIL CHEMIST, sales thus being undoubtedly lost.

To obviate this, if YOU WILL stock our goods WE WILL indemnify you AGAINST LOSS by accepting returns direct at our warehouse and PAYING for same by return post at invoice price PLUS cost of postage or carriage.

ALBERT & CO. 73 Farringdon Street, LONDON, E.C. 4

Never be without

ZI-ZI OINTMENT

On the P.A.T.A.

The genuine remedy for

ECZEMA, CUTS, BRUISES, SORES, BURNS, PILES, PIMPLES, BAD LEGS, SORES on HEAD, CHAPPED HANDS and ALL SKIN TROUBLES.

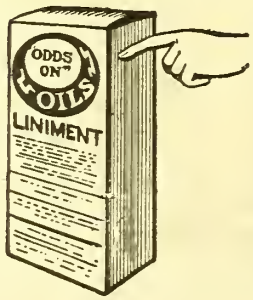
Liberal Terms to the Trade.

Apply to your Wholesaler or to

The "ZI-ZI" CO., Newmarket.

Advertising matter free on request.

RAPIDLY INCREASING DEMAND FOR



"ODDS ON" OILS

Liniment for RHEUMATISM, SCIATICA, SPRAINS, &c.

WIDELY ADVERTISED. Retail Prices: 1/3, 3/- & 8/- bottles

Obtainable from all Distributing Chemists or direct.

The "ODDS ON" SPECIFICS CO., LD., 36-37 Cock Lane, LONDON, E.C.

CHEMISTS! SARGOL

SHORTAGE OVERCOME AT LAST.

Place Orders with your Wholesale House at Once. Demand for Sargol Larger than Ever.

Over a Quarter Million Boxes of the Great Flesh Builder now available each week.

It is with pride that we announce to the Trade that the shortage of Sargol is overcome at last. The ingredients that make Sargol the most efficacious of all Flesh Builders are again obtainable in quantities sufficient to meet the Pre-War demand, which ran about six hundred thousand boxes weekly. This amount, while sufficient to meet present demands, will scarcely meet your future requirements, but for the present moment your Wholesaler can fill any reasonable orders that are placed at once. Order your supplies now. Your customers will appreciate your promptness in supplying them with Sargol. For four years our Stock has been greatly over-sold month by month. Every possible effort was put forth by us to keep our Trade supplied, but the demand constantly exceeded our output.

SARGOL PRESCRIBED BY PHYSICIANS.

Physicians have so consistently prescribed Sargol for those who were run down, under weight, or lacking in strength and nerve force—and it has been so highly recommended by actual users, who have built themselves up and gained from one to two stones in weight and increased their strength proportionately, that the demand has actually increased by leaps and bounds.

ENORMOUS SALES OF SARGOL.

Over twelve million packages of Sargol have been sold in a single year. Thousands of men, women and children to-day owe their wonderful strength, their fine physique, and powers of endurance to Sargol. When you recommend Sargol to your customers you are giving them the best advice possible. It is identical with the advice that would be given by a skilled physician who had proved the merits of Sargol by actual practice and experience.

SARGOL DOES INCREASE WEIGHT, STRENGTH, AND POWERS OF ENDURANCE.

Thousands upon thousands of people have testified to its merits, and have reported remarkable gains in weight by its use.

No other Flesh Builder ever received such strong and convincing endorsement from Customer, Chemist, and Physician as has Sargol. The thanks of the whole British nation is certainly due to the entire Chemist Trade for so consistently recommending Sargol to those who were run-down, under weight, or who were lacking in strength, nerve power, and energy, and for their assurance that Sargol is absolutely harmless, and could be taken in perfect safety by either young or old.

OUR THANKS TO THE TRADE.

We personally extend to the Chemist Trade our very best thanks for the co-operation they have given us, and assure you of our continued untiring efforts to supply you with an ever-increased amount of Sargol to meet the growing demand of your trade.

Selling Price, 3/- per box ... ... Trade Price, 27/- per dozen.
Selling Price of Treatments, 15/- ... " " 144/- "

THE SARGOL COMPANY LIMITED, 10 Phœnix Place, Mount Pleasant, London, W.C. 1.

LIQUID BARKOLA COMPOUND

Wholesale 26/- per doz., less 10 & 5%. Retail 2/9 each.

Each bottle (1 oz) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

THE BARKOLA CO., LTD., 42 Great Dover St., LONDON, S.E. 1.

Proprietors of Barkola Alvexo, Barkola Balm, &c. &c.

A HEALING CREAM

Mentholatum

Ample Stocks always on hand.

P.A.T.A. PRICES.
1/3 size ... **11/6** per dozen.
2/6 " ... **23/-** "
Less 5% on 6 doz. orders.
SPECIAL TERMS for WINDOW AND COUNTER DISPLAYS.
Over 10 million pots sold last year.

The MENTHOLATUM CO.
3 9 High Holborn - LONDON, W.C. 1.

TO PLEASE YOUR CUSTOMERS, STOCK

Overton's Foot-Balm

A REAL Foot Remedy with a big Profit.

R. H. ALLEN & CO.
Manufacturing Chemists,
122/124 Wells Road, Sydenham,
LONDON, S.E. 26.

JABEZ WOLFFE'S

CHANNEL EMBROCATION

The finest preparation for Rheumatism, Sciatica, Neuritis, Muscular Stiffness, Sprains, Cramp, Stings and Bites.
Should be stocked by every Chemist.
Prices: **1/3, 3/-, 5/-** per bottle.

The Laboratory, 12 Hampton St., BRIGHTON, - SUSSEX, - ENGLAND.
Agents required for North of England areas.

P.A.T.A. Revised Prices in effect SEPTEMBER 1, 1919.

Antiphlogistine

TRADE MARK

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/6	22/6	34½ oz.	8/6	76/6
17½ ,,	5/-	45/-	5 lbs.	17/6	157/6

Prices for IRELAND, CHANNEL ISLANDS, and ISLE OF MAN.

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/-	16/6	34½ oz.	6/6	52/6
17½ ,,	4/-	33/-	5 lbs.	13/6	109/6

A Discount of 5% allowed off M.W.P. on orders of £2, cash with order.

CARRIAGE PAID ON ALL ORDERS.

THE DENVER CHEMICAL MFG. CO.,
41 ST. ANN'S ROAD, LONDON, E.3.

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	**10s. 6d.**	per doz. net.
3s. 0d. ,, ...	**26s. 6d.**	,, ,,
5s. 0d {new size ... ... contains double the quantity of 3/- box.	**50s. 0d.**	,, ,,

Beecham's Cough Pills:

1s. 3d. size	**10s. 6d.**	,, ,,
3s. 0d. ,, ...	**26s. 6d.**	,, ,,

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE. Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

YOU CAN DOUBLE YOUR SALE OF SEIDLITZ POWDERS BY STOCKING

G.O. SEIDLITZ POWDERS

EXTRA STRONG, AND FLAVOURED WITH LEMON.

ACTUALLY flavoured with LEMON AND SWEETENED, they are PALATABLE instead of Nauseous, an improvement on the B.P. Formulæ. Your customers will appreciate them. Put them in your window. Show them on your counter. THEY SELL RAPIDLY. No trouble, no worry, no dead stock.

WHOLESALE 21/- Gross Packets
Five gross lots less 5 %
RETAIL at .... 3d. Each

They are packed in smart envelopes. 6 dozen envelopes in a Carton (½ gross cartons), complete with attractive Showcards and Window Slips.

They literally create Trade. You sell out rapidly.

They may be ordered through Messrs. Ucal, Ltd., by Ucal Members, or through Messrs. Sangers, Messrs. Foggitt & Son, Thirsk, Francis Newbery & Sons, W. Edwards & Sons, Butler & Crispe, May, Roberts & Co., and Messrs. Sutton & Co.; or on receipt of Cheque or Postal Order for 21/- we will forward

1 Gross, Carr. Paid—with SHOWCARD and WINDOW SLIP per return.

THE GREENWICH LEMONADE CO.

(J. MILNER, M.P.S., Proprietor)
11 JOHN PENN STREET, LONDON, S.E.13

VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.
VITAMOGEN stands alone as a means of supplying the Vitamines — an entirely new food element.
VITAMOGEN is packed in two sizes, 2/9 and 5/9, obtainable from all the principal wholesale houses.
VITAMOGEN owes its origin to our Chairman, who, 20 years ago, invented Virol, the well-known Invalids' Food.

24 HOLBORN, LONDON, E.C. 1.

Vitamogen LTD.

WHOLESALE TRADE ONLY.

Established 1900.

DR. B. W. GATHERGOOD'S EXOR.

Terrington St. John, WISBECH

For GREEN EXTRACTS and DRIED HERBS of BELLADONNA, HENBANE, &c.

The Holoyd Page

SACCHARINE TABLETS AND TEA SWEETENERS

DON'T forget that we can still give you immediate delivery of these two lines, and sell them to you at prices which will enable you to successfully meet all competition.

PRICES TO DRUGGISTS ARE AS FOLLOWS:

SACCHARINE TABLETS.

Full strength, 0·3 gr., 550 in 1 gr.
100's per doz. 8/-
In Bulk ... £2 5 0 per lb.

TEA SWEETENERS

or half strength Saccharine Tablets, 0·15 gr., 550 in 1 gr.

25's	16/- per gross
50's	28/- ,,
100 s	48/- ,,
In bulk	22/6 per lb.

Attractive Posters and Showcards supplied.

H. O. LLOYD,
The Holoyd Laboratories,
Green Lane, Small Heath,
BIRMINGHAM.

A popular form of a popular Cough Cure

The sales of Bitrate of Tar during the past few seasons have been so great that we are now able to offer you a popular size to retail at 1/3. Advertising commences this month and will be continuous, and we would suggest that you place your order immediately, so that you may reap the full benefits resulting from this campaign. The wholesale price is 12/- a dozen, carriage paid, packed in free cases, and you can secure additional profits by ordering our Special Trade Parcel consisting of 2 dozen 1/3 size Bitrate of Tar and 1 dozen of the 3/- size. The wholesale price of the 3/- size is 30/- a dozen. The price of this Special Parcel is £2 11s. 3d. *net cash with order.* As with all our products, we guarantee the sale and thus protect the chemist.

FOR IRELAND prices will be 1/-, wholesale 9/- a dozen; and 2/6, wholesale 24/- a dozen. The price of the Special Parcel made up for Ireland will be £2, *net cash with order.*

BITRATE OF TAR at——1/3

International Chemical Co. Ltd.

Wybert St., Munster Sq., London, N.W. 1.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

September 13, 1919.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
Gibbs, D. & W., Ltd., Specialities—			
7d. tab. Carbotar Soap	...	7d. tab.	4/9 doz. tabs.
1/9 box ,, ,, (3-tab. box)		1/9 box	14/3 doz. bxs.
Less 5 % discount on assorted orders of Gibbs' Specialities value 30/-			
Lysol Ltd.'s Specialities—			
1/- "L" Brand, 4 oz.	...	1/-	8/- doz.
1/9 ,, ,, 8 oz.	...	1/9	14/- ,,
3/- ,, ,, 16 oz.	...	3/-	24/- ,,
5/- ,, ,, 32 oz.	...	5/-	40/- ,,
1/3 "Pebeco" Tooth Paste	...	1/3	100/- gross
Parke, Davis & Co.'s Specialities—			
50s Santal Oil Globules (5 min.)		6/-	48/9 doz.
Wright, Layman & Umney, Ltd.'s, Specialities—			
7d. tab. Coal Tar Soap	...	7d. tab.	5/9 doz. tabs.
1/9 box ,, ,, (¼ doz. 7d. tabs., per box)	...	1/9 box	17/3 doz. bxs.
3/6 Bath Toilet boxes (¼ doz. 1/2½ tabs.)	...	3/6 box	34/6 doz. bxs.
1/3 Shaving Soap (sticks or cakes)	...	1/3	11/- doz.
Less 2½ % discount for monthly account, due 15th.			
"Yadil" Antiseptic Preparations—			
2 oz. Liquid	...	2/-	17/6 doz.
6 ,, ,,	...	3/6	31/- ,,
20 ,, ,,	...	9/6	84/- ,,
40 ,, ,,	...	17/-	152/- ,,
80 ,, ,,	...	30/-	288/- ,,
160 ,, ,,	...	55/-	528/- ,,
6 ,, Elixir	...	5/-	45/-
20 ,, ,,	...	13/6	121/- ,,
40 ,, ,,	...	25/-	223/- ,,
80 ,, ,,	...	45/-	399/- ,,
160 ,, ,,	...	70/-	675 - ,,
8 ,, Jelly	...	5/-	44/6 ,,
16 ,, ,,	...	8/3	73/6 ,,
1 ,, Ointment	...	1/3	11/- ,,
8 ,, ,,	...	8/3	73/6 ,,
16 ,, ,,	...	16/-	156/- ,,

(Wickered Jars charged 2/- half-gallon and 2/6 gallon size, credited in full if returned carriage paid; 2½% discount for payment within 7 days from date of monthly statement).

"Yadil" prices come in force September 15.

LLOYDS BANK LIMITED,

with which is amalgamated

THE CAPITAL & COUNTIES BANK, LTD.

HEAD OFFICE: 71, LOMBARD ST., E.C. 3.

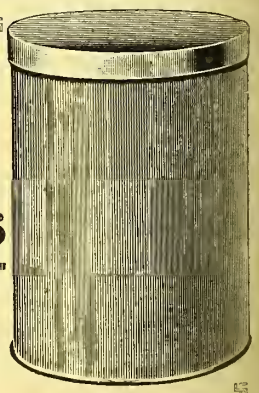
Capital Subscribed	£56,150,350
Capital Paid up	8,984,056
Reserve Fund	9,071,250
Deposits, &c.	309,328,800
Advances, &c.	92,784,877

THE BANK HAS OVER 1,300 BRANCHES IN ENGLAND AND WALES.

French Auxiliary:
LLOYDS BANK (FRANCE) AND NATIONAL PROVINCIAL BANK (FRANCE) LIMITED.

MAY WE QUOTE YOU FOR

Containers



(with Lever or Slip-on Lids)

For PACKING

Coffee, Cocoa, Salt, Custard & Baking Powders, Foods, &c.?

CHEAPER AND MORE EFFICIENT THAN ALL TIN.

Prompt Delivery in Large Quantities.

Paper Tube & Box Co., Ltd.

83 SOUTHWARK STREET, LONDON, S.E.

PHONE—HOP 3966.

Telephone No. : 787 Trafford Park, Manchester. Telegraphic Address : "Stevenut Manchester."

G. STEVEN & CO.

(G. STEVEN, Ph.C., M.P.S., Proprietor)

Wholesale Chemists, Druggists & Drug Grinders

Cornbrook Works, Chorlton Rd., MANCHESTER

TABLETS. Manufacturers of all kinds of Medicinal Tablets, plain sugar and chocolate-coated, packed and in bulk. We are now prepared to supply large quantities of :

Bronchial Tablets
Pine Compound Tablets
Formalin and Mint Tablets
Bismuth and Magnesia Tablets

EXTRACTS. All B.P. Liquid Extracts are prepared with the best materials.
We can supply to advantage :

Liquid Extract of Cascara
Liquid Extract of Ergot

SYRUPS. We guarantee our Syrups to give satisfaction.

Chemical Food, packed and in bulk (free from inky taste)
Compound Syrup of Figs
Compound Syrup of Hypophosphites
Compound Syrup of Glycerophosphates
Raspberry Vinegar, prepared from this year's fruit, is of exceptional quality and flavour.

EMULSIONS **Cod Liver Oil Emulsion,** packed and in bulk. Prepared from Norwegian Oil by the most up-to-date process.
Petroleum Emulsion, packed and in bulk.

Packed Specialities.
'NIOBE" Skin Food (Chemist's Name and Address)
Eau de Cologne No. 188, 2 oz. and 4 oz. White or green glass bottles.
Lavender Water (distilled from flowers), 2 oz. and 4 oz.

We are OPEN TO RECEIVE ORDERS for the GRINDING OF DRUGS

All our Products are guaranteed of the Very Highest Quality.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ..	9/-	per doz.
" 2.	3¼ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
" 4.	12 " " ...	42/-	"

MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.

Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35–42 Charlotte St., London, E.C. 2.

EXTRACT OF MEAT

(IN BULK).

DIRECT IMPORTER

FROM

AUSTRALIA, ARGENTINA, BRAZIL, URUGUAY, &c.

IN VARIOUS QUALITIES.

I invite your Inquiries.

C. J. PIGGOTT,

PRODUCE IMPORTER,

19 EASTCHEAP, LONDON, E.C. 3.

Recommend it for Convalescence

Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

FREEMANS

REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

The Watford Mfg. Co. Ltd. Belsotaland, WATFORD

Freemans FOOD PRODUCTS Watford S.A.A.

MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.

TELEPHONES: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

TELEGRAMS: "Perryope, Nitshill." "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom,

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

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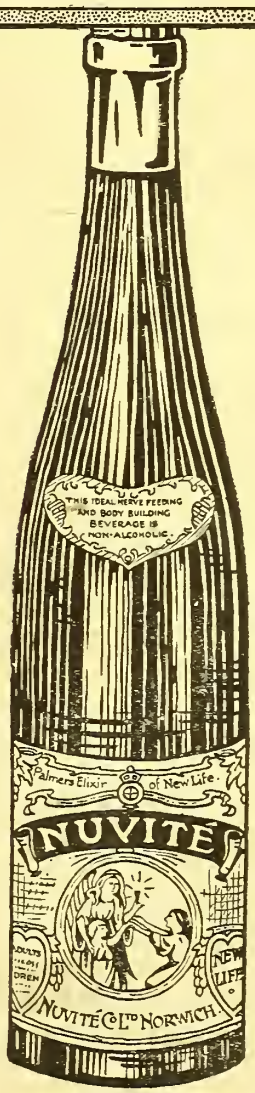

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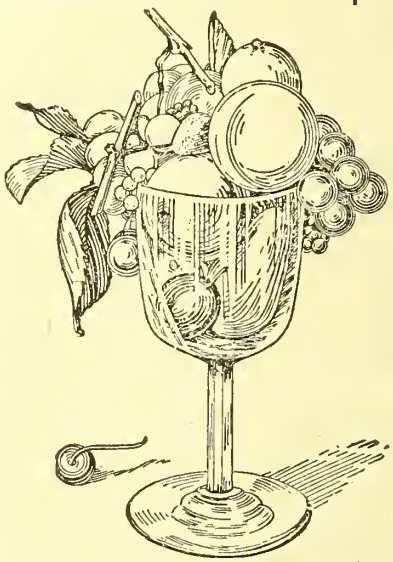

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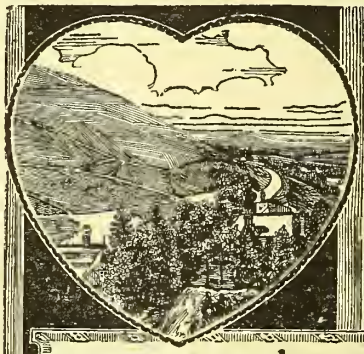

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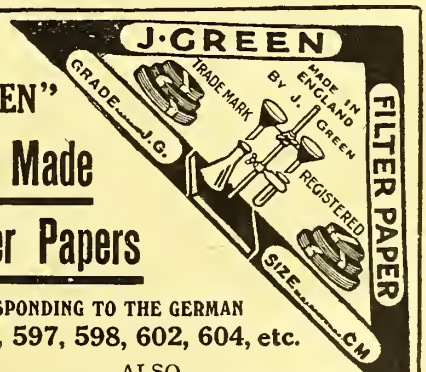

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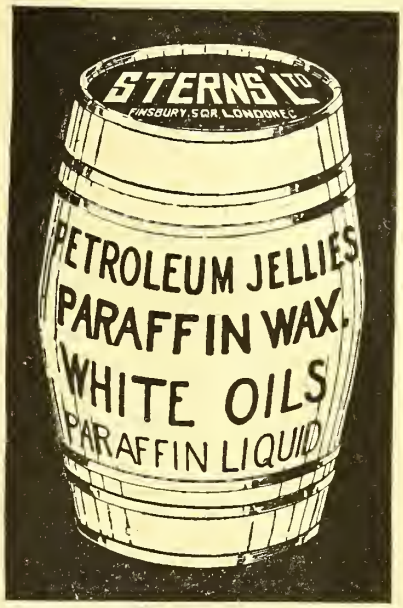

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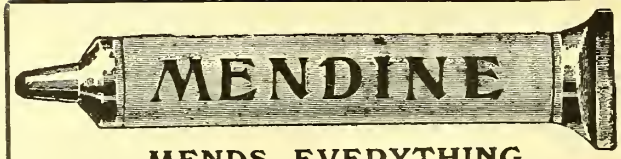

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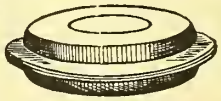

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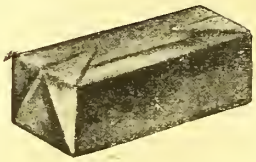

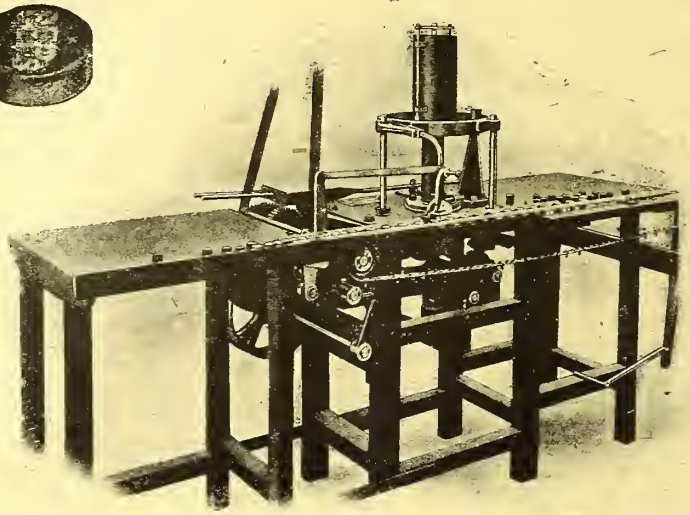

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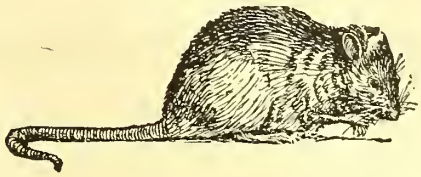

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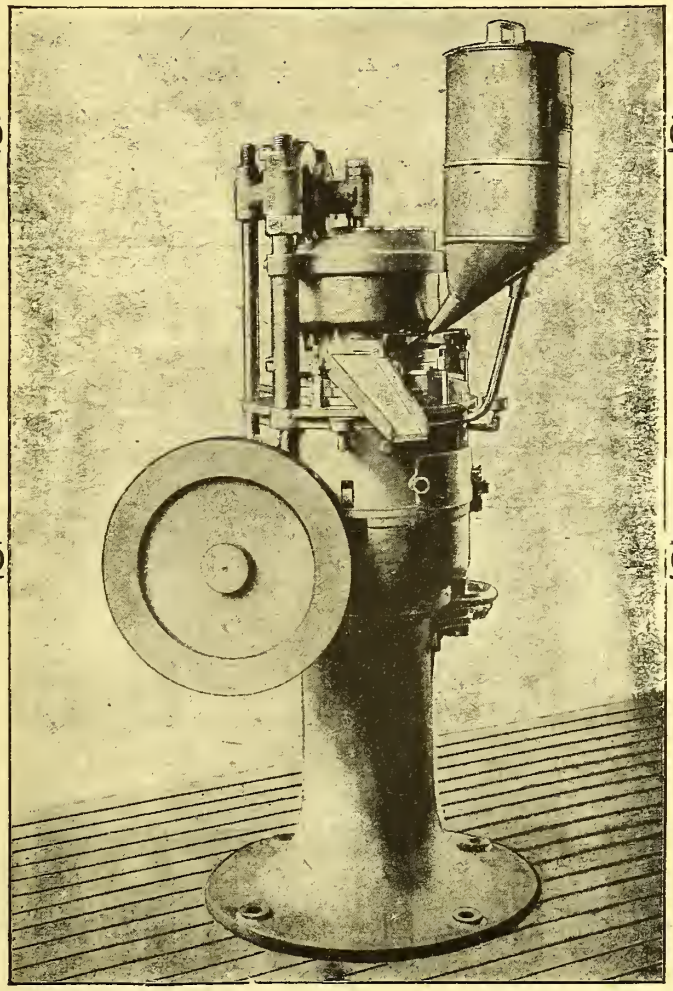

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SUPPLEMENT
SEPTEMBER 13, 1919
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ONDON, N.W.—Qualified Junior Assistant for Dispensing business (outdoors). Apply, giving particulars of experience, Davidson, Pharmaceutical Chemist, 342 High Road, Brondesy, N.W. 6.

ONDON, N.W.—Unqualified Assistant wanted; Dispensing, Counter, etc. Apply, giving full particulars, to Berry, 96 ven Park Road, Harlesden.

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NORTH STAFFORDSHIRE INFIRMARY, STOKE-ON-TRENT. —Assistant Dispenser; male or female; holding Pharmaceutical Society's qualification; state salary; non-resident. W. Stevenson, House Governor.

PORTH, GLAM.—Experienced Assistant wanted; references. Davies Bros., Chemists.

REDHILL, SURREY.—Early in October, a competent Assistant, lady or gentleman, to assist with Dispensing, act at the front Counter, and prepare Galenicals; knowledge of Photography an advantage; 48-hour week. State age, salary required (outdoors), and all particulars, to Fowler & Co., Pharmaceutical Chemists, Redhill.

SHROPSHIRE.—Qualified Assistant wanted (at once); Optician preferred, but not essential; very easy hours could be arranged; no Sunday duty. Apply, stating age and salary required, 64/33, Office of this Paper.

SOUTH COAST.—Wanted, a reliable, unqualified Assistant, accustomed to good-class trade; all-round experience essential. Give details of salary required, age, height, experience, etc., in first instance, 66/310, Office of this Paper.

SOUTH SHIELDS.—Wanted, qualified Assistant as Manager for Jarrow Branch; state salary, age, references, and when at liberty. Mason & Co., Ltd., 80 King Street, South Shields.

ST. THOMAS'S HOSPITAL, S.E. 1.—Assistant Pharmacist (male) wanted October 1st; salary, exclusive of overtime, to begin at £182 per annum. Application by letter only to J. A. Jennings, Pharmaceutist to the Hospital.

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WATFORD.—Wanted (end of September), two unqualified, gentlemanly Assistants (outdoors), one for Dispensing and preparing Proprietaries, the other chiefly for Counter and Stock; applicants must be competent, obliging, and used to a good-class brisk business; undeniable references essential; the Assistant applying for the position at the Counter must be conversant with modern business methods and possess an intimate knowledge of the handling of Photographic Apparatus and Sundries; the Dispenser must be quick, accurate, and used to N.H.I. work. Full particulars should be sent as to previous experience, age, height, salary expected, when disengaged, Chater, Chemists, Watford.

WEST MIDLANDS.—Pharmacist required immediately; suit recently qualified gentleman; easy hours; no holiday, Sunday, or night duty; applicant must send full particulars of experience, stating age and salary desired. Apply 62/10, Office of this Paper.

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SHROPSHIRE.—Qualified Assistant wanted (at once); Optician preferred, but not essential; very easy hours could be arranged; no Sunday duty. Apply, stating age and salary required, 64/33, Office of this Paper.

SOUTH COAST.—Wanted, a reliable, unqualified Assistant, accustomed to good-class trade; all-round experience essential. Give details of salary required, age, height, experience, etc., in first instance, 66/310, Office of this Paper.

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WEST MIDLANDS.—Pharmacist required immediately; suit recently qualified gentleman; easy hours; no holiday, Sunday, or night duty; applicant must send full particulars of experience, stating age and salary desired. Apply 62/10, Office of this Paper.

WIGAN INFIRMARY, GENERAL HOSPITAL.—Pharmacist Wanted; state age, experience, when available etc.; £200 per annum.

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WANTED, a capable and reliable unqualified Assistant (outdoors). Apply, with the usual particulars, to A. F. Cornish, Chemist, Devonport.

WANTED (immediately), French-speaking Assistant. Apply The Manager, Heppell's, 78 Strand, W.C.

WANTED, an Assistant in busy Retail, with Dentistry, in the Midlands; he must be an expert Extractor; advertiser is a member of the Incorporated Dental Society. Apply 49/25, Office of this Paper.

WANTED (immediately), qualified Assistant to manage branch shop. Give full particulars regarding and salary required, to Messrs. Tonking & Rough, Chemists, St. Just, Cornwall.

WHOLESALE.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ASSISTANT required, used to Wet Counter, for factory in N. London. Write, stating age, experience, and wages required to "F. R." (18/27), Office of this Paper.

CHIEF Clerk, accustomed to Wholesale Drug trade and Office Management; provincial, limited; one willing to take up an interest preferred; full particulars and requirements essential in first instance. Apply 65/17, Office of this Paper.

DEPARTMENTAL Manager for Sundries floor, with some knowledge of buying and able to command respect from subordinates; state age, sex, experience, and salary required. "S. D. M.," George Holliday & Co., Ltd., 325 City Road, Manchester.

DRY-COUNTER Hand, experienced, required by London Wholesale House; accustomed to putting up Chemicals, etc; state age and wages required. Apply 63/15, Office of this Paper.

EXCELLENT openings for experienced Representatives having sound, established connections in the following territories:—(a) Birmingham and Midlands; (b) Yorkshire; (c) Northumberland and Durham. Applicants should be willing to reside in the area worked, and be capable of interviewing Doctors as well as Chemists. Apply 18/61, Office of this Paper.

EXPERIENCED man required to take charge of Wet Drug Room for multiple shop firm; quick worker; free removal; please state age, experience, wages desired, etc. Apply 61/3, Office of this Paper.

EXPERIENCED Forewoman required for supervision of the Perfumery Department; must be accustomed to high-class business and used to control of female staff. The Empire Perfumery Co., Oldbury.

GOODS Receiving Department.—Vacancy occurs for a responsible Assistant; knowledge of trade a recommendation. Apply A. W. W., Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

LIVE Representatives required for Derbyshire, Warwickshire, also S.E. and S.W. of London, to call on Chemists with well-advertised line. Write "A.C.B.," c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

REPRESENTATIVE on commission required to take up a first-rate and ready-selling Winter Line; orders already pouring in; only men with *live* connections eligible. Apply 61/19, Office of this Paper.

REPRESENTATIVE, working Birmingham and surrounding districts, wishes to take up one or more quick-selling lines amongst Chemists, Druggists, Drysalters, and general trade; large connection and turnover is offered for suitable goods of merit. Apply "A.Z." (64/8), Office of this Paper.

REPRESENTATIVES required for the United Kingdom on commission basis, having a good connection among Chemists and Medical men, to introduce a series of high-class Food Preparations of unique value and world-wide patent; P.A.T.A. articles, attractively packed, and having influential Medical and Press support; existing territory shows good and increasing turnover; a unique opportunity. Apply, in confidence, giving full details of territory, etc., to 17/36, Office of this Paper.

REPRESENTATIVE wanted by Manufacturing Chemists for Lancashire and Yorkshire districts; must have experience and connection. "P. D. C.," c/o Messrs. Heath Bros., Blackfriars Street, Manchester.

REQUIRED, energetic young man thoroughly acquainted with the manufacture and filling of Face Creams, Tooth Pastes, etc., by machinery. Apply in first instance, stating age, experience, and remuneration required, to "Savon" (14/40), Office of this Paper.

REQUIRED, Assistant Manager, qualified not essential, for Wholesale Drug Warehouse, Oil and Colour Merchants; state age, experience, and salary; permanency if suitable. B. North & Co., St. James Street, Nottingham.

REQUIRED, by Northern Wholesale firm of Druggists, qualified man to develop Manufacturing side; should have all-round experience, particularly in Tablets, the manufacture of which he would be required to initiate; state age, experience (in confidence), and salary required. Apply 64/35, Office of this Paper.

SALESMAN wanted (whole or part time) to sell fine line of well-advertised Toilet Goods in steady demand. Only men with established connections capable of handling a further first-class proposition on commission should write 11/72, Office of this Paper.

SENIOR Invoice Clerk required by provincial Drug house; thorough knowledge of trade essential. Apply, stating salary and full particulars, to 17/33, Office of this Paper.

TABLET Maker required; must thoroughly understand Tablet Making and Coating, including Granulating, etc.; West of England; permanency and good prospects; free removal; please mention age, experience, references, salary desired, etc. Apply 61/310, Office of this Paper.

TRAVELLER wanted with connection among Doctors and Chemists in Lancashire and Yorkshire by a firm of Manufacturing Chemists; must be young and a good interviewer. Reply, stating age, references, and salary required on a salary and commission basis, to 59/31, Office of this Paper.

TRAVELLERS wanted, well introduced amongst Druggists and Chemists, for attractive French articles, to be taken as a side-line; largely advertised. Apply to "L'Oréal," 7 Beak Street, W. 1.

WET-FLOOR Assistant required in City Wholesale Druggists; previous experience absolutely essential. Apply, by letter, giving full particulars, to 19/69, Office of this Paper.

YOUNG man wanted in Laboratory, with some experience in the manufacturing of Galenicals and Toilet Preparations, etc.; good worker; state wages required. Apply 65/37, Office of this Paper.

YOUNG qualified Pharmacist (bachelor), as Representative, wanted by a progressive, reputable firm of Manufacturing Chemists; experience not essential, but applicant should have the qualities necessary for success as Medical Interviewer and Salesman. Apply by letter, in own handwriting, and send photograph, giving full particulars as to experience, age, height, and commencing salary required, to "A. D." (21/12), Office of this Paper.

SITUATIONS OPEN.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

(Colonial, Indian and Foreign.)

CALCUTTA.—Wanted, for Calcutta, qualified Assistant with first-class Dispensing and Retail experience; single, abstainer; not over 26; four years' engagement; salary Rs. 400, Rs. 425, Rs. 450, Rs. 500 (rupee equals 1 shilling and 8 pence); passage paid out and home. Apply, with references, testimonials, and photo, to John Watson & Co., 34 Fenchurch Street, London, E.C.

CALCUTTA.—Wanted for Calcutta, qualified or unqualified Assistant with good experience, to take charge of Wholesale Department of a young and progressive business, where some manufacturing is done, and a line of successful specialities put up; single, abstainer; not over 25; four years' engagement; salary Rs. 400, Rs. 425, Rs. 450, Rs. 500; passage paid out and home. Replies with usual particulars to "Aspirin" (14/600), Office of this Paper.

CALCUTTA.—Wanted for Calcutta, thoroughly reliable Assistant with good Dispensing and Retail (Store methods) experience; single, abstainer; not over 25; knowledge of Photography; four years' engagement; salary Rs. 350, Rs. 375, Rs. 400, and Rs. 450; passage paid out and home. Apply with full particulars in first instance to "Calcutta" (14/60), Office of this Paper.

CALCUTTA, INDIA.—Assistant wanted by well-known firm in Calcutta; qualified preferred; four years' agreement; passage paid out and home; salary first year Rs. 300, second 325, third 350, fourth 400 monthly. Apply, giving particulars of experience, etc., to 47/18, Office of this Paper.

KIMBERLEY, SOUTH AFRICA.—Qualified Assistant required; young man preferred, with good experience; good salary; three years' agreement; second-class passage paid out and home. Apply, with copies of testimonials and photo, to "M. H.," Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

SINGAPORE, Straits Settlements.—Wanted, qualified Assistant, young, of good experience; healthy climate; short hours; three years' agreement; passage paid out and home; salary first year £38 per month, second year £41, third year £44. Further particulars from M. K. Watt, Pharmacist, 28 Esslemont Avenue, Aberdeen.

SOUTH AFRICA.—Qualified Assistant wanted; good-class business; climate healthy; passage paid out; excellent prospects. Apply by letter to "C. M. N.," 25 Arrol Road, Beckenham, Kent.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every additional 10 words or less, prepaid.

[HOME.]

RETAIL.

A.A.A.—PHARMACEUTICAL Chemist; just demobilised; 28; well experienced; Manager, with full control Buying, etc., before joining up; Superintending Pharmacist in R.A.M.C. while absent from Retail Pharmacy; at liberty; Locum or otherwise. "Chemist," 42 Granville Road, Blackpool.

A HIGHLY trained, modern business man requires responsible position (London), with scope for personal effort; Manager or Salesman; salary, commission. Give details by letter, or make appointment, "Pharmacist," 88 Grove Road, N. 7.

ADVERTISER is prepared to take and price few Chemists' Stocks; immediate dates; low terms combined with accuracy. 14 Barnard Road, S.W. 11.

ADVERTISER, passed Preliminary, is seeking an Apprenticeship; London or suburbs. "Secant" (64/31), Office of this Paper.

AS Manager.—Qualified Chemist desires responsible permanent position; age 38; height 5 ft. 7 in.; married; available September 25; has successfully managed business (for widow) nearly three years, recently sold. Send particulars, salary and hours, etc., "Apex," c/o Mr. J. Barker, Evington Road Pharmacy, Leicester.

AS Locum; permanency; reasonable terms; good references. "Chemist," c/o 6 Eastbourne Terrace, London, W.

ASSISTANT; 38; unqualified; single; permanency; high-class Dispensing; state salary and hours. Apply 62/14, Office of this Paper.

ASSISTANT; 37; demobilised; reliable Dispenser; good Counterman; Photography; near classes. Apply 61/33, Office of this Paper.

ASSISTANT, unqualified, 39, 5 ft. 11 in., experienced Counter, Dispensing, Photo, and Optics, disengaged; good references; Army discharged; state salary and hours. "Statim," 64 Howard Street, Gloucester.

ASSISTANT; thoroughly experienced Counter, Dispensing, Photography; disengaged; would manage branch or entertain Locum; excellent references. "R.," 90a Pearcroft Road, Leytonstone, E. 11.

ASSISTANT; 26; excellent Dispensing and Retail experience; knowledge of Photography. Chant, 5 Garfield Road, Margate.

ASSISTANT, unqualified, 34, married, desires situation where facilities for attending evening classes; all-round experience; six years present situation; W. England preferably. Apply 60/2, Office of this Paper.

ASSISTANT Dispenser requires post with Doctor in country, or on coast, or sanatorium; knowledge of Sanatorium Pathological work. Miss Cristwood, E. A. Sanatorium, Nayland, Suffolk.

ASSISTANT, age 25, recently demobilised, requires permanent situation with good prospects; five years' sound experience General, Furnishing, Builders', and Agricultural; keen Salesman and Stockkeeper; first-class credentials; good secondary education; 5 ft. 10 in.; smart appearance; South or South-West preferred. Apply 60/6, Office of this Paper.

ASSISTANT, industrious female, 31, requires immediate work; 2 years' Stores experience Perfumery and Drugs; 10 months' Dispensing, mostly N.H.I.; used to executing post orders and correspondence; willing to accept any position easy reach of Forest Hill. Apply 63/110, Office of this Paper.

ASSISTANT, unqualified (29), just demobilised, desires situation. Searle, 2 Carlisle Avenue, Plymouth.

ASSISTANT, 23, unqualified, single, London Wholesale Laboratory (speciality Toilet Preparations) and Retail experience, excellent Window-dresser, Counterman, and Dispenser, seeks responsible position; home or abroad. Apply "Galenical," 30 Carson Road, London, E. 16.

BIRMINGHAM DISTRICT.—Lady Assistant; aged 20; five years' good experience; served indentured Apprenticeship; good Dispenser. Miss Palmer, 3 Bishopton Road, Bearwood, Smethwick.

CHEMISTS requiring holiday write 14 Barnard Road, S.W. 11; disengaged 23rd; highest references.

COMPETENT Assistant; 32; unqualified; tall; high-class experience in Dispensing and Counter; near London preferred; disengaged. Stapleton, Moor Street, Kidlington, Oxon.

CORK CITY.—Evenings or part-time wanted by M.P.S. studying medicine. Apply 60/17, Office of this Paper.

DISENGAGED; unqualified; 30; West-End experience Dispensing and Counter work. Lemon, 5 Birch Grove, West Acton, London.

DISPENSER (lady) desires post in good Pharmacy or Doctor; reliable; good references. Apply 56/4, Office of this Paper.

DISPENSER (Hall) wants work with Pharmacist (no remuneration); one evening a week or Saturdays. Miss Field, 242 Whitehorse Road, Croydon.

DISPENSER, woman, qualified, Doctors' and Institution experience, desires post. Address F. W., 327 Seven Sisters' Road, Finsbury Park, N. 4.

DISPENSER; unqualified; 9 years' experience; age 25 years; highest references; disengaged 15th inst. 65/14, Office of this Paper.

DISPENSER-BOOKKEEPER, lady, requires post; experienced; Doctor, Institution. H., 31 Boulevard, Hull.

DISPENSING.—Lady, "Hall," good experience, desires post; Institution or Doctors preferred. "A.," 1 The Avenue, Beckenham.

DRUG Store Manager; unqualified; permanency; situation required where tact and business-bringing ideas would meet and receive suitable remuneration; good Prescriber; smart Salesman and Buyer; attractive Window-dresser; competent, energetic, and reliable; married; well recommended. If requiring good all-round man send particulars of salary, etc., to 62/4, Office of this Paper.

ELDERLY, qualified, married, desires change on account of family circumstances; Branch Manager or qualified supervision; at or near the Coast preferred; suitable house, with garden, at shop or available near, essential. State salary and other particulars, 65/23, Office of this Paper.

EXPERIENCED, qualified woman requires work as Dispenser. Clarke, 60 Queen's Road, Teddington.

GENTLEMAN, elderly, of good address and education, is open to an engagement with a good house in or near London, where business experience, push, and personality in interviewing would be appreciated; staff controller; appointment by arrangement. "Globos" (18/56), Office of this Paper.

HOSPITAL Pharmacist, open to accept position in Hospital or with M.O.; accustomed to Dispensing, Sputum, and other Analyses; also can assist in routine treatment of Syphilis, etc.; London only. Apply 65/28, Office of this Paper.

JUNIOR or Improver (19) desires post; five years' first-class experience Dispensing and Counter; excellent references. "T. J. S.," 266 Holdenhurst Road, Bournemouth.

JUNIOR; disengaged October 20th; capable and trustworthy; experienced Counter and Dispensing; London preferred. Usual particulars to Jones, 10 John Street, Rhyl, Wales.

LADY Dispenser, well educated, seeks post with Doctor or Institution; South Hants district; Hospital experience. Apply 62/28, Office of this Paper.

LADY Dispenser (Hall); four years' Doctors' and Chemists' experience; disengaged September 20th. Apply 59/40, Office of this Paper.

LADY Dispenser (Hall), some experience, desires post; Doctor, Hospital, or Institution preferred; easy distance of Norbury. 41 Beatrice Avenue, Norbury, S.W. 16.

LADY Assistant, "C.M.B." Certificate, 10 months' Dispensing with busy Chemist, experienced in fitting Trusses, Belts, etc., desires post any capacity; good worker; London or S.E. district. Apply 63/11, Office of this Paper.

LADY Dispenser (Hall) desires post; Chemists' and Doctors' experience; South Wales preferred. Sharpe, 64 Glenalla Road, Llanelly, Carm.

LADY (Hall) requires post; experience Chemists, Hospital. Replies to be sent to 64/10, Office of this Paper.

LADY, Apothecaries' Hall, desires post in London district; varied experience. Apply 66/29, Office of this Paper.

LIVERPOOL AREA.—Lady Student, 20, wants situation in Chemist's shop; studying for Hall; been two months with Mr. Mavor, Crewe; can pack, and help Counter and N.I. Dispensing, also Doctor's Surgery; willing to work a month for board (indoors). Miss M. Egerton, Church Minshull, Middlewich.

LOCUM; disengaged September 14th to October 3rd; unqualified; 10 years' experience; highest references; Cheshire district preferred. "Reliable," 29 Hightown, Crewe.

LOCUM Manager or Dispenser; qualified; good all-round experience town and country; disengaged 16th; age 47; height 5 ft. 10 in.; good appearance and address. Longman, 229 Westminster Bridge Road.

LOCUM or Senior (L.P.S.I.); age 48; experienced Retail and Dispensing; letters only; disengaged at own convenience. "L.P.S.I.," 68 Denman Street, Nottingham.

LOCUM; qualified; Harrogate preferred; for a month about October or November. R. Graham, Red Cottage, King's Avenue, Parkstone, Dorset.

LOCUM; qualified; reliable; age 30; disengaged from September 15th. Court, "Dormans," Canterbury.

LOCUM; disengaged; tall, middle-aged, married, abstainer; high-class preferred; used to control; where ability appreciated. Watson, 6 Upper Stone Street, Maidstone.

LOCUM, experienced, disengaged September 15; sole charge or Dispensing. C. S., 19 Rockmount Road, S.E. 19.

LOCUM, qualified, disengaged end of month; over 30 years' wide experience; several years London. Smith, 88 Tenison Road, Cambridge.

LOCUM, experienced, disengaged; abstainer; highest references. Fell, 21 Westbourne Street, Pimlico, S.W.

LOCUM Dispenser; Hall; disengaged October; seaside or country. 64/1, Office of this Paper.

LONDON.—Qualified Manager seeks good permanent situation; married; expert Prescriber; Photography; disengaged when a suitable situation presents itself. Apply "Energetic" (62/15), Office of this Paper.

LONDON.—Lady Assistant (Hall), 2½ years' various experience, desires permanent post; October; Doctor, Hospital, or high-class Chemist; testimonials on application. Apply Miss Warren, St. Michael's House, Mildred Avenue, Watford.

M.P.S., 27, seeks a progressive berth in good Pharmacy early October; first-class Dispensing, Retail, and Photo experience; six years' present situation; Midlands or W. of England preferred. Fawcett, c/o Chane & Jackson, Ltd., Hereford.

M.P.S., F.S.M.C., married, seeks change, permanent, progressive position, where housing accommodation can be arranged; wife, also Pharmacist, could assist part time if required; both have held responsible positions during war and afterwards in the management of high-class Pharmacies, with good Photographic connection. "Manager," 91 Victoria Road, Cambridge.

MANAGER; 30; married; qualified; view to early succession preferred; West-End and suburban experience; qualified Optics (D.B.O.A.); good Bookkeeper; salary and commission; London only. "Chemist-Optician" (61/23), Office of this Paper.

MANAGER (Branch) or Assistant, qualified, 25, desires position; Birmingham or district preferred; disengaged October 11th. Particulars to Smalley, Abbey Street, Rhyl.

MANAGER, experienced, desires permanency; qualified; well up in Counter, Dispensing, and Photography; with or without view to succession. Apply "Chemist," 1 The Balconies, East Liss, Hants.

MANAGER, qualified, married, seeks good position; Photography; able to buy; good experience; would consider Managership with view to purchase; Manchester or district preferred; state salary offered. Apply 48/15, Office of this Paper.

MANAGER or Locum; qualified; married; disengaged; 20 years' experience. Details to "D. O. C.," 26 Fox Hill, S.E. 19.

MANAGER, Senior, Locum, disengaged. "Dallas," Bromley House, Fulwood, Preston.

MANAGER; qualified; 38; disengaged; view to early succession; cash ready; town or country: must have comfortable house. "Oxygen" (64/27), Office of this Paper.

MANAGER; 30; qualified; London and country; all-round experience; active and reliable; disengaged. Particulars 63/29, Office of this Paper.

MANAGER; qualified; preferably view to Partnership or succession; highest credentials; seaside preferred, but not essential. "Tetanus" (56/2), Office of this Paper.

MANAGERSHIP required, view to succession; qualified; married; 21 years' all-round experience; North Devon or Cornwall preferred. Apply 56/8, Office of this Paper.

MINOR Student (young lady) desires post with Chemist; one year's training. Write, giving particulars, "Dispenser," 36 Charlwood Street, S.W. 1.

PART-TIME; qualified; Counter, Dispensing, Manufacturing; daily, mornings, 9 till 1. Apply 63/9, Office of this Paper.

PERMANENCY or Locum; qualified recently; single; 26; disengaged; excellent references; Photography; state salary. Graham, Rowanlea, Annan Road, Dumfries.

PHARMACIST, 40, recently demobilised, requires post as Senior Assistant with view to management; excellent experience and references; at present doing Locum; disengaged September 21st. Stansfield, 24 Laurel Grove, Southport.

PHARMACIST will take over Management of a business in an industrial centre with view to purchase. "Northern" (57/38), Office of this Paper.

PHARMACIST; first-class London and Continental experience; excellent references; City or West End preferred. Apply 63/90, Office of this Paper.

PHARMACIST, disengaged October 1st; any period. "C.," 3 Fore Street, Totnes.

QUALIFIED, healthy, active, abstainer, good education, business experience and references, excellent Dispenser and Prescriber, desires responsible position; temporary or permanent. Apply 61/30, Office of this Paper.

QUALIFIED; 39; Manager or Locum; steady, reliable; disengaged September 15th. Apply 61/25, Office of this Paper.

QUALIFIED lady Dispenser, four years' experience, desires engagement in Hospital or public Institution in or near London; leaving present post on account of permanent Dispenser being demobilised; excellent testimonials. Apply 61/13, Office of this Paper.

QUALIFIED Manager, age 42, competent, reliable, abstainer, seeks berth in country town; Midlands preferred; would invest up to £100 or purchase small business; disengaged end September. "M.P.S.," 5 Greenfield Street, Shrewsbury.

QUALIFIED; 30; first-class Dispensing and Retail. State salary, etc., to 59/29, Office of this Paper.

QUALIFIED, 32, married, desires post as Manager or Assistant, preferably with view to succession; exceptional experience; ndeniable references. Apply 62/38, Office of this Paper.

QUALIFIED; Locum; permanency preferred if nice rooms or house attached; married, no children; Extractor, with Minor entistry. "Chemist," 74 Deacon Street, Walworth.

QUALIFIED; experienced as Manager or Locum; highest testimonials; Photographic; disengaged early October. R. L. A., 2 Ellison Road, Barnes, S.W.

QUALIFIED; Manager or Locum; 25 years' all-round experience; disengaged. State salary, 65/5, Office of this Paper.

QUALIFIED Manager, accustomed to good-class business, energetic, and of good address, seeks remunerative post; unenjiable references; disengaged middle of October. Apply 64/34, ffice of this Paper.

QUALIFIED; 30, just demobilised; good experience Dispensing; Wales not objected to; start immediately. 65/11, ffice of this Paper.

QUALIFIED (37); just demobilised; height 5 ft. 6 in.; outdoors. Please state terms, 64/2, Office of this Paper.

SENIOR or Dispenser; 35; wide and varied experience; high-class Dispensing; West-End, City, and provinces. "London," 51/12), Office of this Paper.

SOUTHEND or DISTRICT.—Dispenser; Hall; 14 years' experience; N.H.I. Dispensing; permanency. Apply 65/6, Office this Paper.

TO CHEMISTS, DOCTORS, OR HOSPITAL DISPENSERS.
Will anyone requiring an Assistant Dispenser consider a young man who has been a Workhouse inmate and has had many years in the Dispensary of same. He is a reliable and careful Dispenser, neat writer, and of good character. Testimonials given.
Any queries will be answered by R. Hawks, Fairwater, Post Bridge, Dartmoor, Devon.

UNQUALIFIED Assistant or Branch Manager (or Drug Stores); over 30 years' good all-round experience Dispensing and unter; good references; reasonable salary accepted for comrtable, permanent berth; easy hours; country preferred. Apply /32, Office of this Paper.

UNQUALIFIED; age 39; Manager or Assistant; married; all-round experience; London preferred. "Statim" (62/39), fice of this Paper.

UNQUALIFIED (registered Dispenser), 27, married, seeks situation country town; considerable experience Counter, Dispensing, Bookkeeping, Photography; capable; excellent referees. Apply 63/7, Office of this Paper.

UNQUALIFIED, gentlemanly Assistant desires position in London; West End preferred. 64/37, Office of this Paper.

YOUNG lady, M.P.S.I., wishes appointment as Dispenser to Doctor; short hours; South of England preferred; excellent erences. Please apply with full particulars to Victor E. nna, Irish Pharmaceutical Bureau, 70 Lower Mount Street, blin.

YOUNG lady desires situation as Saleswoman, Perfumery; 2½ years' experience with West-End firm; speaks French. Write 102 Brixton Road, S.W. 9.

WHOLESALE.

1s. for 12 words or less; 6d. for every 10 words or less Beyond, prepaid.

GENTLEMAN of many years' business experience amongst Wholesale and Retail Chemists is desirous to occupy his spare e at a moderate remuneration in representing, or partly representing, in London a well-established firm of Manufacturing mists or Wholesale Druggists. Apply by letter to "X. L.," Streets, 30 Cornhill, E.C. 3.

YOUNG Man of smart appearance and good address, age 23, seeks position in Wholesale Druggists' and Manufacturing Chemists', or Sundries house; recently demobilised; some wledge Sales and Order department; salary not so much an ct—experience required. Apply 65/25, Office of this Paper.

ADVERTISER, 36, married, recently demobilised, desires position as Traveller, or would take up good Agencies on commission and expenses; thoroughly conversant with the Drug Allied trades; Liverpool and Lancs. Apply 57/36, Office of Paper.

ADVERTISER desires position Wholesale Chemical House; good Counter Hand; travelled extensively; attend Exhibitions, are, manage exhibits; speaks French. E. C., 7 Southampton l, N.W. 5.

ADVERTISER seeks position as Traveller; 32 years' experience in the Retail; 24 years in present situation; excellent ences. Apply 64/19, Office of this Paper.

Foreman, Pastilles, Jubes, Lic. Extract Maker. Apply 60/23, Office of this Paper.

COMMERCIAL Traveller calling on Chemists covering South Coast to Penzance, East Coast to Grimsby, seeks good Proprietary line as side-line on commission or other suitable arrangement. Apply 55/20, Office of this Paper.

DEMOBBED; unqualified; business man; young, impressionable Salesman; use to bottling and labelling; good Stockkeeper; prompt; not afraid of work; part or whole time travelling; Wholesale or Retail. G. Woolley, High Street, Westerham.

EX-OFFICER earnestly desires position of trust; plenty of energy and initiative, and capable of handling men; six years' experience, and good knowledge of manufacturing; should like outdoor position as Traveller if possible on account of illness caused through wounds; excellent references. Apply 62/17, Office of this Paper.

FIRST-CLASS SALESMAN.—Advertiser, who has travelled London, suburbs, and Home Counties, wishes to Represent a good firm in Soaps, Perfumes, or Proprietary articles; little connection, but can guarantee to enlarge any existing one; public school education; tall, well-groomed, and gentlemanly appearance, but above all a Salesman; salary, commission, and actual expenses; four years' overseas. Write "Art" (61/18), Office of this Paper.

GALENICALS.—Advertiser seeks situation, position of trust in Manufacturing Works; thoroughly experienced; good organiser; held responsible position in large Steam Laboratories and Warehouse; conversant with Customs and Excise Regulations, spirit recovery, etc., exportations under bond, cultivation and drying of Medicinal and Culinary Herbs under latest process, distillation of essential oils; 20 years' practical experience. Apply to Tolchard, "Ferns," Long Melford, Suffolk.

GENTLEMAN, Pharmacist, desires supervision work in provincial Wholesale or Scientific, Horticultural, or Agricultural Chemist's; disengaged; formerly in Retail; or Chemical Mines abroad; salary not so much an object as comfortable, permanent position in healthy district. 64/23, Office of this Paper.

LABORATORY Hand, in any branch; very good references. Apply C. Woolcott, 23 Bardwell Street, Islington, N. 7.

LONDON Representation or good side-line required by Chemist with first-class connection amongst Chemists, Wholesale and Retail. 65/40, Office of this Paper.

MANAGER Chemist, young, Graduate, desires responsible appointment with enterprising house, especially if an interest is prospective; widest large scale Drug experience in most important positions; manufacturing, testing, costing, selling, correspondence, etc; exceptional references and qualifications. Apply 60/1, Office of this Paper.

PHARMACIST, 25, with experience in analysis and manufacture of Pharmaceutical and Toilet preparations, requires situation with Wholesale house. Apply 60/25, Office of this Paper.

QUALIFIED, 32, good appearance and address, first-class Wholesale and Retail experience, over five years as Representative with leading Pharmaceutical speciality house, desires position as Sales Manager or London Representative with firm supplying first-class products, either Drugs, Chemicals, or Perfumery, Toilet, etc., or would undertake the introduction of new lines. Apply 62/8, Office of this Paper.

REPRESENTATIVE.—Qualified man, already representing Sundries house, is wishful for another commission "Pharmacist," 4 Lynton Avenue, West Ealing, W.

REPRESENTATIVE, young, live connection including shippers, thoroughly experienced Drugs, Dressings, Toilets, Sundries, Perfumes, Pastilles, and Veterinary lines, seeks change to join firm with good range of goods (or side-line); London and Home Counties; excellent trade and banker's references; car at disposal. Write "R. A." (65/15), Office of this Paper.

TRAVELLER (35), 12 years' personal connection Chemists, Stores, Doctors in North-Eastern Counties, is open to represent a good house; part expenses and commission basis. Apply 62/2, Office of this Paper.

TRAVELLER, with large and extensive connection throughout United Kingdom, desires representation good house; expenses and commission. "Enterprise" (65/39), Office of this Paper.

WANTED, by unqualified Chemist, aged 24, position as Laboratory or Wet-room Assistant; capable, energetic. Details to "Rhei," The Firs, Tollerton, York.

WANTED, position with Wholesale; age 36; 14 years' Retail, three interviewing for well-known house; good references. Smith, 2 Danehurst Road, Aintree.

WORKING Manager; complete control to small manufacturing firm; could assist books, travel. Apply 28/7, Office of this Paper.

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